CONSTRUCTION NEWS

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CONSTRUCTION NEWS.

PLANS AND SPECIFICATIONS ON FILE.

(* *denotes that this work is advertised in Engineering News.*)

The following Plans (P.) and Specifications (S.) are on file and may be seen at the office of The Engineering News Publishing Co., 220 Broadway, New York.

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LIST OF CONTRACTS PENDING.

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RAILWAYS.

ALABAMA & MISSISSIPPI.—An extension may be built from Vinegar Bend to Chatham, Ala. The line is now in operation from Vinegar Bend to Leakesville, 20 miles. M. Lankford is Gen. Mgr., at Vinegar Bend.

ALLEN-WADLEY LUMBER CO., LTD.—W. G. Wadley, Pres., Shreveport, La., announces that it is desired to contract for the building of ten miles of standard-gage railroad.

CENTRAL MONTANA COAL CO.—This company has been formed by the owners of the McDonald Coal Creek mines to build a railroad from Lewistown, Mont., to the mines, about ten miles.

COLUMBUS, MEMPHIS & PENSACOLA.—At an election held at Columbus, Miss., on Aug. 1, the citizens voted to issue $30,000 and $50,000 of bonds in aid of this proposed line, which will run between Aberdeen, Miss., and Columbus. Grading has commenced at Aberdeen. Right-of-way is said to be nearly all secured. H. E. Reynolds is Pres., Columbus, Miss. Noted on July 18. C. B. Hopkins, Aberdeen, is Secy. V. M. Murphy is in charge of the work.

DENVER, LARAMIE & NORTHWESTERN.—Preparations are being made to begin work on this road from Denver, Colo., to Laramie, Wyo. KILPATRICK BROS. & COLLINS, of Beatrice, Neb., have the contract.

PARIE.—A hearing was given by the Public Service Commission on Aug. 14th to the Erie R. R. Co., on its application to issue $8,386,411 car trust equipment certificates. The company was represented by G. A. Richardson, Vice-Pres., and George N. Orcutt, Gen. Atty. The proceeds of the certificates are to be used for the purchase of 60 passenger cars, costing $501,060; 1,000 steel coal cars, $1,228,876; 3,000 steel box cars, $3,480,700; three Mallet type locomotives, $108,000; 35 consolidated freight locomotives, $616,875; 2,000 steel hopper cars, $2,450,000. Decision was reserved. Frank W. Stevens, Capitol, is Chn. of the Commission.

EUNICE, LAFAYETTE & ABBEVILLE.—This company has been organized with $1,000,000 capital to build a line connecting the three towns named, besides other points. The officers are: J. J. Lewis, of Eunice, Pres.; J. N. Green, of Abbeville, Vice-Pres.; Chas. D. Caffery, of Lafayette, Secy., Treas. and Attorney. Directors include the officers and E. G. Voorhies, P. L. Declouet, Gustave Fuzelier, J. J. Stagg and Julian Mouton, of Lafayette; H. Barrousse and Dr. L. B. Arceneaux, of Churchpoint; Dr. J. A. Villien and C. D. Trahan, of Maurice; A. J. Godard, J. S. Ewell and F. A. Godchaux, of Abbeville.

FRESNO FLUME & LUMBER CO.—C. B. Shaver, Pres. and Gen. Mgr., Clovis, Cal., states that this company is operating about ten miles of line, which is simply a standard-gage logging railroad extending from its mills at Shaver Lake, Fresno County, California, back into this company's timber. Company has not as yet incorporated, but expects to within the next year. Eventually this road will be from 20 to 25 miles long.

GRAND TRUNK PACIFIC.—FOLEY & LARSEN, of Vancouver, B. C., have secured the contract for grading the line to be built between Kitamaat and the headwaters of the Copper River. This line will follow the surveyed route of the Pacific, Omineca & Northern Ry., the charter for which was bought several years ago by the Grand Trunk Pacific from C. W. D. Clifford and associates. The sum of $60,000 was paid for this charter. John W. Stewart is Engr. for contractors.

GREENVILLE & KNOXVILLE.—J. N. Johnston, Ch. Engr., Marietta, S. C., advises us that this line is in operation between Greenville, S. C., and Travelers Rest, ten miles, connecting Monaghan, White Oak, Montague and Altamont. Contracts will be let about Sept. 15 for building to River Falls, 27 miles. The line, when completed, will run from Greenville, S. C., north via Travelers Rest, Marietta, River View, River Falls and Flat Rock to Hendersonville, N. C., 56 miles. Road is now graded to River View, 21 miles. About 40 miles of the road will be through the Blue Ridge Mountains. There are to be two steel bridges, two steel viaducts and four short tunnels. W. D. Patterson is Pres., Atlanta, Ga.

GULF, PLAINVILLE & NORTHERN.—The contract for building this road from Plainville, Kan., north toward Phillipsburg has been awarded to the W. C. ROSS CO., of Chicago, and work is to begin at once. The road is projected from Hoisington north via Plainville to Phillipsburg, 110 miles, and may be extended from Hoistington southeast to Anthony. C. G. Cochran is Pres., Plainville, Kan.

MAYO TRANSPORTATION CO.—The Mayo Transportation Co. has been incorporated to build a railway from a connection with the Houston, East & West Texas Railway at Mayo, Tex., to a point about five miles distant at or near the Caraway Mills. J. P. Carter, G. M. Duncan and H. M. Carter are the incorporators, Houston, Tex.

NEW YORK STATE.—The Public Service Commission, Capitol, Albany, N. Y., has directed that every steam and street railroad company doing business under the supervision of the commission shall file with it certified copies of all contracts, agreements or arrangements to which it may be a party which in any way relate to the carriage or transportation of freight, express matter and passengers, or either, or to the handling, use or transportation of cars or locomotives. These sworn copies must be filed on or before Sept. 14.

SOMERSET & NASHVILLE.—This company has been organized and incorporated by J. H. Gibson, cashier of the First National Bank; Beecher Smith, George P. Sallee, Joseph Claunch, J. L. Waddle, W. C. Sheppard, J. M. Ross, T. V. Ferrell and Virgil P. Smith, of Somerset, Ky. The line will be seven miles long, running from Somerset to the Cumberland River. Estimated cost of construction and equipment, $125,000.

SOUTHERN PACIFIC.—Survey for a branch from Ashland, Ore., to Reno, Nev., is practically completed.

E. B. Cushing, Gen. Supt., Louisiana Western R. R., New Orleans, La., is reported as saying that twelve miles of temporary trestle work are to be filled in on the Baton Rouge-Lafayette line, which will be 50 miles long. This particular work will delay its completion for more than a year, as about 1,000,000 cu. yds. of earth will have to be moved. A. V. Kellogg is Engr. at Houston, Tex.

UNION PACIFIC.—The Denver "News" states that "four outfits of Union Pacific surveyors are working in the country east and west of Wheatland, Wyo., locating the line for a cut-off from a point on the main line near North Platte, Neb., to the main line at Medicine Bow, Wyo., nearly 400 miles further west. One large outfit is working just west of Fort Laramie, another is at the Mudd ranch, on the Sibylle, and west of this place, a third is working up Luman Creek, and the fourth is on Cheyenne Creek."

ELECTRIC RAILWAYS.

WORCESTER, MASS.—The Board of Railroad Commissioners has extended the time to Jan. 1, 1909, within which the Worcester & Northern St. Ry. Co. is authorized to construct and operate its railway.

WATERBURY, CONN.—We are officially informed that the Waterbury & Milldale Tramway Co. will let contracts some time this fall for building its line from Waterbury to Milldale, Conn., eight miles. The officers are: Pres., Charles H. Clark, of Southington; Secy., John H. Cassidy, of Waterbury; Treas., Edwin S. Todd, of Milldale. Directors: Otis S. Northrop, of Waterbury; Charles H. Clark, of Southington; George F. Hughes, of Waterbury; Edwin S. Todd, of Milldale, and John H. Cassidy, of Waterbury. The company is capitalized at $100,000. Surveys will be started soon and right-of-way secured.

ROCHESTER, N. Y.—William C. Gray, Ch. Engr. of the Rochester, Corning & Elmira Traction Co., Rochester, advises us that contract for building this railway has been awarded to the ROCHESTER & SOUTHERN CONSTRUCTION CO., 27 Church St., Rochester. The line is to be about 115 miles long, running from Rochester to Conesus Lake, Danville, Wayland, Bath, Corning, Horseheads and Elmira, N. Y. Max Schultze is Pres., 42 Broadway, New York. Surveys are made, and right-of-way is practically secured. S. Feuerstein, Ch. E. E., Rochester.

ITHACA, N. Y.—We are officially informed that the Ithaca & Oswego Traction Co. has partly secured necessary right-of-way for its proposed line, which will be 34 miles long, and will connect Ithaca, Brookton, Slaterville, Caroline, Willow Bridge, Jenksville, Weltonville, Flemingville and Owego, where it will pass through North Ave. and Main St. to the D., L. & W. Railroad station. The directors of the company are George R. Peck, Brookton; H. S. Finch, Richford; S. E. Banks and Sherman Collins, Ithaca; Charles D. Nixon, Owego; John F. and E. A. Delaney, Charles W. Munson and James G. Cozzens, Chicago. The main office will be in Ithaca. Kirk P. Crandall, of Ithaca, made the survey for this railway. Sherman Collins, Pres., has resigned, and new officers will be elected on Aug. 23. Previously noted.

JOHNSTOWN, PA.—The Southern Cambria Railroad Co., which has been chartered to build a line connecting this city with Ebensburg, Pa., has awarded the contract for the construction of the first section, which is ten miles in length and extends from this city to South Fork, to UMBENHAUER & CO., Perry Bldg., Philadelphia, Pa. The line will be about 25 miles in length. The remaining contracts will be awarded within a few weeks. The company is ready for estimates now for a long steel viaduct that is to be built from the head of Church St. across Woodvale, two miles above this city. The general offices of the company are in Johnstown.

PITTSBURG, PA.—The Dauphin St. Ry. Co. has applied to the state for a charter to construct an electric railway from Pittsburg to Dauphin. The road will be affiliated with the Central Pennsylvania Traction Co. The applicants are Frank B. Musser and W. J. Calder, of the Traction Co., Harrisburg; A. G. Knisely, Leroy J. Wolfe and C. L. Bailey, Jr.

GREENCASTLE, PA.—The Chambersburg, Greencastle & Waynesboro St. Ry. Co., which owns and operates the electric railway running from Greencastle to Waynesboro and Rouzerville, may build an extension from Greencastle to Chambersburg, and a short line from Shady Grove, where its system connects with the Hagerstown Electric Railway, to the proposed Chambersburg-Greencastle line, the point of intersection being about three miles north of Greencastle. A. C. Shryock is Ch. Engr., Waynesboro, Pa.

WILKES-BARRE, PA.—The Wilkes-Barre & Wyoming Valley Traction Co. will build an extension to Laurel Run, Pa. Thos. A. Wright is Gen. Supt.

LANCASTER, PA.—The Lancaster & York Furnace St. Ry. Co. will build an extension from Pequea to York Furnace and thence across the Susquehanna River on a new bridge. J. R. Kreider is Gen. Mgr., at Millersville, Pa.

SALISBURY, N. C.—The Board of Aldermen has granted a franchise to the Piedmont-Carolina Railway Co. to build a belt line railway from Newton Heights in Spencer, and thence via East Spencer and Long St. to Inniss St. in Salisbury, and thence to a point near the new fair grounds.

GREENVILLE, S. C.—Survey is made, right-of-way obtained and franchises granted for the proposed extension of the Anderson Traction Co.'s line from Belton to Greenville. William Elliott, Jr., is Gen. Mgr., Columbia, S. C. The route is through Williamston, Piedmont and Pelzer to Greenville; grades not over 2 per cent.; curves not over 8 degrees. Contracts will be let in September. It is proposed to begin operating July 1, 1908.

GREENVILLE, S. C.—Application will be made to the Secretary of State within the next 30 days for a charter for a standard-gage electric railroad from Greenville to Spartanburg. The company will be incorporated under the name of the Greenville & Spartanburg Ry. Co. It proposes to build a line traversing the townships of Greenville, Butler and Chick Springs, in Greenville County, and Beech Springs and Spartanburg, in Spartanburg County, making a total distance of 31 miles. The road will pass the Chick Springs Hotel resort. The petitioners for the charter are A. A. Gates, C. C. Cood, H. H. Prince and O. K. Mauldin, all of Greenville.

NEW PHILADELPHIA, OHIO.—The Valley Transit, Light & Power Co., of this city, has been incorporated with a capital stock of $100,000, to construct an electric railway to connect Canton, New Philadelphia, Newcomerstown, Coshocton, Newark and Columbus. The incorporators are: Clyde J. Kinsley, Michael Siebold, E. S. Rhodes, W. W. Snyder, F. G. Knenzli, W. J. Wise, T. F. Hynes and F. O. Richards, all of New Philadelphia. The company also has the right to operate coal mines.

FINDLAY, OHIO.—The Toledo Urban & Interurban Ry. Co. may extend its road from Findlay to Kenton, Ohio. C. F. Smith is Gen. Mgr., at Findlay.

EVANSVILLE, IND.—The Evansville & Eastern Elec. Ry. Co. has started a survey for an extension from Rockport to Grandview. Surveyors are running a line to connect Indianapolis and Evansville. It is reported that the survey for the extension from Boonville to Cannelton will begin soon. W. L. Sonntag is Gen. Mgr.

SEYMOUR, IND.—We are officially advised that the Seymour & Brownstown Interurban Motor Line Ry. Co., which was incorporated in Indiana, with $10,000 capital, has postponed indefinitely its plan to build a line eleven miles long, connecting Seymour and Brownstown. As noted on July 18, we were informed that this line was "to be something new. The work will be experimental. Z. T. Sweeney, of Columbus, Ind., has obtained the patents which he proposes to develop. He has plenty of funds for it. There will be concrete tracks for motor cars."

GRAND RAPIDS, MICH.—We are advised by C. J. Post, Secy., 267 Terrace Ave., that the Grand Rapids Electric Railway Co., of Grand Rapids, has fixed no date yet for letting contracts for the construction of its line between Grand Rapids and Saginaw and Bay City. The line will be 157 miles long, passing through Greenville, Langston, Stanton and Alina. Surveys have been finished and right-of-way and capital secured. The work will be largely gravel and sand loam. Both electricity and steam will be used on this road. J. W. Boynton, Grand Rapids, is Pres. and George W. Doane, Ch. Engr.

CHICAGO, ILL.—It is reported that the Aurora, Elgin & Chicago Electric Ry. Co. plans to build a branch to Naperville. Edwin C. Faber is Gen. Mgr., at Wheaton, Ill.

MANCHESTER, IOWA.—The Manchester & Davenport Interurban Co. has been organized at Davenport, with a capital stock of $15,000, all of which is paid in. The officers are: Pres., George T. Baker, of Davenport; Vice-Pres., J. R. Voorhees, of Monticello; Secy., F. W. Rank, of Moline; Treas., T. F. Halligan, of Davenport.

CROOKSTON MINN.—The plan to build an electric railway between this place and Grand Forks, 27 miles distant, is under consideration, but as yet no organization has been effected. Application has been made for a street railway franchise in Crookston. Under the city charter the franchise cannot be voted upon until September. If the franchise is granted, the probabilities are that construction work will be commenced in the spring. The parties at present interested in the road are A. H. Poehler, of Minneapolis; J. P. Foote, Pres. of the Scandia-American Bank; J. W. Wheeler, Pres. of the First National Bank, and W. A. Marin, all of Crookston. The company expects also to build a dam on the Red Lake River east of Crookston, but does not intend to furnish power for any other purpose than for the street railway.

DALLAS, TEX.—The Dallas Interurban Electric Railway Co. is reported to be preparing for active work. D. E. Waggoner is Pres. The directors are: I. J. Willingham, C. C. Slaughter, J. B. Nabors, Otto H. Lang, Dan Sonnenthiel, Dr. R. C. Buckner, M. H. Wolfe, L. A. Stemmons, J. Mercer Carter and Charles T. Alexander.

SPOKANE, WASH.—Jay P. Graves, Pres. of the Spokane & Inland Empire Ry., has announced that this company has in contemplation the building of a line from Colfax to Walla Walla, Wash., and the extension of its system from Moscow to Lewiston, Idaho. It cannot be stated when these lines will be built, but they are projected, and if the company's plans go through the Inland Empire system may be extended to connect both Lewiston and Walla Walla. Grading is proceeding between Palouse and Moscow, 15 miles.

MONTEREY, CAL.—The City Trustees of Monterey have declared the franchises granted the Monterey, Fresno & Eastern Railway Co. forfeited as a result of the company's failure to commence work on the railway and wharf. The time expired June 27. Bonds furnished by the United States Fidelity & Trust Co. were also declared forfeited, according to press reports.

LIGHT AND POWER PLANTS.

(denotes that this work is advertised in Engineering News.)*

PORTLAND, ME.—Bids are asked until Sept. 3 by the Board County Commissioners, James H. McDonald, Chn., for the engine, generator and electric wiring for the County Building. Geo. Burnham, Arch., 120 Exchange St.

MARLBORO, MASS.—The Marlboro Electric Co. has been granted permission to issue $170,000 of additional capital stock. Improvements will be made to its plant here. L. P. Howe is Mgr.

WESTFIELD, MASS.—The Board of Selectmen has awarded contract for building gasholder to the CRUSE-KEMPER CO., Stephen Girard Bldg., Philadelphia, Pa., for $20,600. George Pettibone is Mgr. of the municipal gas and electric plant.

NEW BRITAIN, CONN.—The State Legislature has passed the resolution granting an amendment to the charter of the Stanley Works, by which the company is empowered to increase its capital stock from $1,500,000 to $3,000,000, to build a dam in the Housatonic River in Kent, and construct a power plant there, and erect a transmission line from Kent to New Britain to furnish electricity to operate its plant in this city.

ALBANY, N. Y.—The Legislature has authorized the various work to be done at the various State penal institutions, the amounts given being the sums available for the respective pieces of work: Matteawan State Hospital for Insane Convicts—$10,000 for Block B building for women. Dannemora State Hospital for Insane Convicts—$56,500 for construction work; $6,000 for heating system.

NEWARK, N. Y.—The Legislature has authorized an appropriation of $3,500 for electric light, dynamo and engine at the New York State Custodial Asylum for Feeble-Minded Women, at Newark. C. W. Winspear is Supt.

ROCHESTER, N. Y.—The Board of Supervisors has passed a resolution authorizing the purchasing agent to advertise for bids for the construction of a lighting plant for the court-house, at a cost not to exceed $7,900. The county is now paying nearly $4,000 a year for lighting the building, and it is expected that with its own plant it can be lighted at a cost of about $1,000 per year.

NEW YORK, N. Y.—Bids are asked until 11 a. m., Sept. 14, by the Bureau of Yards and Docks, Navy Dept., Washington, D. C., for 15 motor generator sets and accessories for the Navy Yard, New York. Specifications are on file at office of Engineering News, New York.

The contract for the construction and equipment of two big power generating plants for the Long Acre Electric Light & Power Co. has been placed by that corporation with the AMERICAN & BRITISH MANUFACTURNG CO., of Providence, R. I. In order to secure the funds needed to pay for this contract, the Long Acre Co. has authorized a bond issue amounting to $10,000,000 of general mortgage 5% bonds. The two stations will be of 50,000 HP. each. One of these plants will be used to supply the customers of the electric company in Harlem and the other to furnish light, heat and power to its customers in Long Acre Square and other down-town districts of New York, according to a press report from Boston. For the purpose of accommodating this work, the American & British Co. has erected a new plant in Providence, which it will operate in conjunction with its old plant in that city. It proposes to turn out the necessary turbines in the old George H. Corliss works and the heavier machinery in its new shops. The construction company is planning to rush the work on the plants and expects to have the 42d St. plant operating to the extent of 10,000 HP. by next spring. Unless its present plans fail, both plants will be completed and equipped within the next three years. Officers of the Long Acre Co. say they then will be able to supply electricity at a figure which will be equivalent to 40 cts. a 1,000 ft. in gas. Estimated cost, $10,000,000.

*PAULSBORO, N. J.—Bids are asked until 7 p. m., Aug. 29, by Charles M. Gwilliam, Boro. Clerk, for installation of gas plant. Wm. H. Boardman, 426 Walnut St., Philadelphia, Engr.

YORK, PA.—At a meeting of the stockholders of the York Gas Co. on Aug. 15 it was decided to increase the capital from $600,000 to $1,000,000. The money will be used for the installation of a high-pressure system and making other improvements for extending the service to nearby towns, it is said.

CUMBERLAND, MD.—The Chesapeake & Potomac Telephone Co. has petitioned the City Council for a permit to establish a conduit telephone system in Cumberland. It will cost the company about $100,000 to place its wires underground in this city. B. W. Trafford is Mgr., Washington, D. C.

CAMBRIDGE, MD.—The Board of Commissioners of Cambridge has granted John H. Burgess, Jr., and W. H. Medford, representing Baltimore capitalists, an electric franchise for a term of 30 years, renewable for the same length of time, with an option of purchase by the town in 15 years.

GRAHAM, VA.—C. W. Keister, of Graham, is interested in project to construct an electric light and power plant here, and would like some party with experience and capital to assist with same.

ROMNEY, W. VA.—The Romney Light & Heating Co. has been incorporated with capital stock of $7,000 by I. D. Shaffer, J. A. Luther, W. A. Weaver, each of Scalp Level, Pa.; N. D. Shaffer and F. B. Lesse, of Johnstown, Pa.

HASTINGS, W. VA.—The Hope Natural Gas Co., 323 Fourth Ave., Pittsburg, Pa., according to a press report, has begun the construction of its proposed pipe line for conveying natural gas from Pine Grove, near Hastings, to Cleveland, Ohio. This is to be an 18-in. line and it will cost about $4,000,000, of which $2,500,000 will be for making, shipping, laying and hauling pipe and $1,500,000 for right-of-way. The NATIONAL TUBE CO., Frick Bldg., Pittsburg, Pa., received contract for manufacturing the piping, and is doing this at its plant in Lorain, Ohio.

MOORESVILLE, N. C.—The municipal electric light plant has contracted with the Southern Power Co., of Charlotte, to furnish electricity to operate the municipal plant, and arrangements are now being made to connect with the lines of the power company. James Donald, Supt.

COLUMBUS, GA.—The Central of Georgia Railway Co. will equip its shops with electricity in Columbus, having just signed a contract with the COLUMBUS POWER CO. for the necessary electric current. The Railway Co. has awarded a contract for an electrical installation in its Savannah shops, and the road's new $1,000,000 shops now being built at Macon will also be operated by the same power. F. F. Gaines is Supt. Motive Power, Savannah, Ga.

MILLEN, GA.—We are officially advised that bids will be received about Sept. 12 by H. Q. Bell, Mayor, for an electric light and water plant for this place. Estimated cost, $30,000. J. B. McCrary & Co., Atlanta, Ga., are the Engrs.

CALERA, ALA.—Arrangements are being made for construction of an electric lighting plant in this town. A site has been purchased on Front St. and Montgomery Ave. and franchises have been granted by the authorities. The company contemplates building an ice plant in connection with the electric plant. P. J. Jemison is interested in the project.

KNOXVILLE, TENN.—WM. OLIVER, of Knoxville, has been awarded contract for building a dam across the Tennessee River for the Knoxville Ry. & Lt. Co. Estimated cost, $2,500,000.

MURRAY, KY.—W. O. Weaver, City Clerk, states that bids will be received on Aug. 22 for the purchase of $20,000 of bonds, which were issued for electric light and water improvements.

LIMA, OHIO.—The City Council is considering the installation of an electric plant as an auxiliary to the present pumping plant at the water-works.

PAINESVILLE, OHIO.—Plans are being made by the Commercial Electric Co. to rebuild its plant in this city. G. L. Williams is Ch. Engr.

HARRISON, OHIO.—The Harrison Electric & Water Co., of Harrison, has been incorporated with $30,000 capital by Wm. F. Boyd, Edward Avesmer, Samuel Farland and others to acquire and operate the electric and water plant in Harrison and West Harrison.

HAZELTON, IND. — C. L. Howard, City Clerk, states that a petition is being circulated for an election to vote on the construction of an electric-light plant.

PLYMOUTH, IND.—C. D. Snodgrass, Pres. of the Plymouth electric light plant, contemplates making improvements to the plant, at a cost of about $10,000. Day service will be established if the city will extend his franchise and contract.

CRYSTAL FALLS, MICH.—Robt. Munns, City Clk., states that the contract for building an addition to power station has been awarded to the FALKENAU CONSTRUCTION CO., 108 La Salle St., Chicago, Ill.

L'ANSE, MICH.—Bids are asked until 8 p. m., Sept. 3, by Patrick Bulger, Village Pres., for constructing a hydraulic power plant. Edward P. Burch, Consult. Engr., 1210 Guaranty Bldg., Minneapolis, Minn.

TRENTON, ILL.—Bids are asked until Aug. 27 for furnishing and erecting addition to municipal electric light plant, engine, dynamo, switchboard, heater, boiler feed pump, piping and pole line material, for extending present direct-current, 3-wire lighting system. Specifications are on file at office of Newton Rule, City Clk., at Trenton, and at the office of W. A. Fuller, Engr., 1122 Chemical Bldg., St. Louis, Mo.

GREENFIELD, ILL.—The City Council is reported to have granted A. Y. Collins a franchise for an electric light plant.

MILWAUKEE, WIS.—R. W. Hunt & Co., Rookery Bldg., Chicago, have presented the Board of Public Works an estimate of cost of the first work proposed on the municipal electric lighting plant under the specifications they have prepared. The estimated cost of the gas producer plant is $100,000 and of the engines, $400,000.

GARY, S. DAK.—It is proposed to construct an electric light plant at a cost of about $5,000.

VALLEY CITY, N. DAK.—H. F. Halverson, City Audr., states that the municipal electric lighting plant is inadequate to meet the city's needs, and is to be sold to the highest bidder, bids for which will be received some time this month. B. F. Codding is Ch. Engr.

BEEBE, ARK.—The city contemplates establishment of electric light plant and water-works.

LITTLE ROCK, ARK.—George W. Caldwell has purchased the Little Rock Heating Co.'s operating plant for furnishing heat by means of hot-water pipes. About $50,000 will be expended in installation of new equipment, extension of mains and other improvements, it is said.

CHEROKEE, OKLA. — The Cherokee Light, Ice & Power Co. has been incorporated, with a capital of $50,000, by E. T. Carpenter, J. W. Howard and others.

WALTER, OKLA. — H. F. Tripp, City Clerk, states that the Walter Electric Light & Power Co. has received franchise to construct electric light plant. Estimated cost, $25,000.

NAPA, CAL.—The Board of Supervisors of Napa County has granted a franchise to D. L. Beard to maintain and erect poles and wires over the county for the transmission of electricity for lighting and power purposes.

EXETER, CAL.—GLASS & FISHER, of Bakersfield, Cal., have secured the contract for the construction of the new power-house of the Visalia Electric Railway Co. at this place. The building will be of reinforced concrete and will cost $20,000. The power station will furnish electricity for operating the electric railway between Exeter and Lemoncove.

STOCKTON, CAL.—The Stanislaus Electric Power Co., which is building a large power plant on the Stanislaus River in Toulumne County, is procuring right-of-way for its transmission line through San Joaquin County. Rights through Calaveras County from the plant, twelve miles east of Vallicita, have been procured and the line will run from that point direct to San Francisco. The company expects to develop 30,000 HP. The transmission line is to be carried on steel towers 50 ft. high, placed from 800 to 1,000 ft. apart.

LOS ANGELES, CAL.—Preliminary surveys have been made by the Pacific Light & Power Co. for a power plant in San Gabriel Valley. E. A. Beck is Supt.

SAN JOSE, CAL.—Charles J. Kuhn, Gen. Mgr. of the National Park Electric Power Co., states that preliminary work is now being done for the construction of its plant, actual work on which will begin in the near future.

SAN FRANCISCO, CAL.—Miller & Lux, 862 Howard St., will install a complete power plant for their new abattoir and packing house, between First and Second Sts.,

east of Kentucky St. The plant will include a boiler with capacity sufficient for the packing house and for refrigerating machines and electric power. Plans, etc., may be seen at the office of B. Carrol Shipman, Elec. Engr. 604 Mission St.

REDDING, CAL.—The stockholders of the Pacific Power Co. have voted to appropriate $30,000 for the completion of work and line into Red Bluff. A. A. Martin, Mgr.

WILLOWS, CAL.—The Snow Mountain Power Co. has been awarded a franchise by the Board of Supervisors of Glenn County to erect transmission lines for the distribution of electricity throughout the county.

LOVELOCKS, NEV.—W. B. Joslyn, Mgr. of the Lovelocks Light & Power Co., announces that the company will install at once a 2,000-light alternating current electric plant. The equipment of the plant has not yet been decided upon.

KAMLOOPS, B. C.—This city desires information in regard to producer gas plants, but is not yet ready to receive bids.

WINNIPEG, MAN.—Bids are asked by Magnus Peterson, Secy. of the Civic Board of Control, until noon, Aug. 23, for the supply of electrical supplies required by the electrical department. F. E. Cambridge, City Electrician.

MOOSEJAW, SASK.—Council is considering plan to raise $90,000 for improvements and extensions to the municipal electric lighting plant. J. C. Jenner, Supt.

DAWSON, YUKON DISTRICT, CAN.—Plans are being prepared for the Yukon Smelting & Power Co. for the construction of a smelter at Whitehouse having a capacity of 250 tons per day. Plans are also being made to install an electric plant to furnish electricity for operating the mines. A. B. Palmer is Mgr.

The Yukon Milling, Dredging & Power Co., of this city, has received a water grant of 50,000 ins. and will develop electricity.

BRIDGES.

(denotes that this work is advertised in Engineering News.)*

SPRINGFIELD, MASS.—Bids are asked by the City Treasurer until Aug. 27, for superstructure for steel bridge over the Boston & Maine R. R. tracks on line of Abbe Ave., with clear span of 178 ft. 6 ins., 24 ft. roadway, and one 6-ft. sidewalk; also construction of concrete-steel structure over Mill River on line of Peconsic Ave., clear span of 24 ft. and 100 ft. in length. Chas. M. Slocum is City Engr.

GREENFIELD, MASS.—Bids are being received by the Selectmen for constructing 25-ft. span steel concrete highway bridge with 20-ft. roadway. The Clapp & Abercrombie Co., 90 Main St., Greenfield, are Engrs.

BRIDGETON, N. J.—See under Streets and Roads.

NEWARK, N. J.—Bids are asked by the Eleventh Ward Bridge Commission, Charles J. Watson, Chn., at the County Court House until Aug. 27, for constructing bridge over Morris Canal at Central Ave. George F. Drum is County Engr.

*LAUREL SPRINGS, N. J.—Bids are asked until 11 a. m., Sept. 9, for building a new iron truss bridge, 64 ft. long, over Laurel Lake. Fred W. George, Court-House, Camden, is Clerk. J. J. Albertson is County Engr.

*RAHWAY, N. J.—Bids are asked until 3 p. m., Sept. 4, for the construction of a reinforced concrete bridge at New Church St., over the Robinson Branch of the Rahway River. The bridge is 46 ft. wide with 60-ft. span. J. L. Bauer, County Engr., 215 Broad St., Elizabeth.

PHILADELPHIA, PA.—The Board of City Surveyors Aug. 12 approved plans for constructing 3-arch concrete bridge over Tacony Creek and Ashdale St. Estimated cost, $100,000.

PITTSBURG, PA.—Bids are asked by the County Commissioners until noon, Aug. 23, for bridge work. F. P. Booth is County Controller.

SCRANTON, PA.—The Board of Public Works, C. R. Acker, Dir., has awarded contracts for constructing bridges as follows: Lackawanna Ave. bridge, YORK BRIDGE CO., York, Pa., $83,997; Scranton, St., NELSON CONSTRUCTION CO. of Chambersburg, Pa., $10,390; Linden St., NELSON CONSTRUCTION CO., $9,770; Green Ridge St., JOHN F. WHITTAKER of Williamstown, Pa., $31,944; Cedar Ave., FLOYD COLLIS CO., of New York, $53,918. James Langan, City Engr.

JACKSONVILLE, FLA.—Seaboard Air Line Ry. Co. has awarded contract to PHILIPS & TURNBULL for construction of viaduct along East Adams St. E. A. Frink, at Portsmouth, Va., is Bridge Engr.

VICKSBURG, MISS.—Bids are asked by the Board of County Supervisors, J. D. Laughlin, Clk., and the Board of Aldermen, until noon, Sept. 4, for construction of concrete arch bridge over Glass Bayou at Cherry St. and concrete-steel bridge at City Cemetery Road, near Rigby Place. H. J. Trowbridge is City Clk.

SHREVEPORT, LA.—Bids are being received by the Allen-Wadley Lumber Co., Ltd., for constructing steel bridge and ten miles of railroad. (See Railways.)

PADUCAH, KY.—The NASHVILLE BRIDGE CO., Nashville, Tenn., has been awarded contracts for constructing concrete bridges over Massac and Camp Creeks, at $3,260 and $3,570 respectively.

IRONTON, OHIO.—The Council has decided in favor of constructing bridge at Third St. and Drum Lane. Alex. Potter is Ch. Engr., Bd. Pub. Service.

MASSILLON, OHIO.—The contract for constructing the West Tremont Bridge has been awarded to E. J. LANDOR, of Canton, Ohio, at $24,000. The bridge will be constructed of concrete. Harold Howland is City Engr.

TRENTON, OHIO.—Bids are asked by the County Commissioners at New Philadelphia, until Sept. 2 for constructing steel bridge across Ohio Canal at Trenton. The bridge will have 72-ft. span, concrete floor and will be twelve feet wide.

EATON, OHIO.—Bids are asked by C. W. Eidson, County Audr., until noon, Sept. 5, for constructing superstructures of various bridges. Fred. C. Roberts is Engr.

ST. CLAIRSVILLE, OHIO.—Bids are asked by A. W. Beatty, County Audr., until 1 p. m., Sept. 2, for constructing substructures and superstructures for various bridges.

CLEVELAND, OHIO.—Bids are asked by the Board of County Commissioners, Julius C. Dorn, Clk., until 11 a. m., Sept. 14, for constructing concrete steel bridge in Strongsville Township.

DANVILLE, IND.—Bids are asked by the County Commissioners until 10 a. m., Sept. 2, for construction of Hazelton-Hadley bridge in Guilford Township.

NOBLESVILLE, IND.—Bids will soon be asked by the County Commissioners, T. E. Beals, Chn., for constructing bridge across Fall Creek at Jolly Road.

LAGRANGE, IND.—An overhead bridge may be constructed at Hoagland Highway at the Grand Rapids & Indiana Ry. crossing.

LA FAYETTE, IND.—Bids will soon be asked by the County Commissioners for constructing bridge across Wabash River.

PRINCETON, IND.—Plans have been ordered prepared by the County Commissioners for constructing iron bridge across Fatoka River, to be known as the Severn bridge.

NEW ALBANY, IND.—The County Commissioners have let contract for constructing bridge across Big Indian Creek at Stiller's Ford to the PAN AMERICAN BRIDGE CO., of Newcastle, Ind.

GOSHEN, IND.—Plans have been prepared by J. L. Cooper, County Surv., for constructing several bridges.

INDIANAPOLIS, IND.—The County Commissioners Aug. 7 awarded the contract for constructing bridge over Crooked Creek in Washington Township to GEO. W. FIFE, for $7,170.

BLUFFTON, IND.—The County Commissioners have let contract for constructing nine bridges to the INDIANA BRIDGE CO., of Muncie, Ind.

DELAVAN, ILL.—The wagon bridge at Fourth St. across the Chicago & Alton viaduct will be rebuilt.

BARTLETT, ILL.—The contract for construction of reinforced concrete bridge and approaches in Hanover Township has been let to JOHN O'HEARN & CO. B. Schultz is Town Clk. H. L. Emerson, 1206 Chamber of Commerce Bldg., Chicago, is Engr.

ROCK ISLAND, ILL.—Bids are asked by M. T. Rudgren, City Clk., until 5 p. m., Aug. 26, for constructing bridge across Rock River.

EASTON, WIS.—The HENNEPIN BRIDGE CO., 968 Laurel St., Minneapolis, Minn., has secured the contract for constructing single-span bridge across Eau Claire River at Easton for $4,000.

ST. PAUL, MINN.—Plans are being prepared by L. W. Rundelett, City Engr., for constructing steel and concrete bridge, 400 ft. in length, at State St. Estimated cost, $30,000.

WICHITA, KAN.—Bids are asked by the Board of County Commissioners, E. P. Martin, Chn., until noon, Sept. 9, for constructing reinforced concrete bridge across Arkansas River at Douglas Ave., Wichita. George H. Bradford, Wichita, is Engr.

ATCHISON, KAN.—The contract for constructing bridge on line between Atchison and Jefferson Counties has been awarded to the MISSOURI VALLEY BRIDGE & IRON CO., of Leavenworth, Kan., for $5,175.

IOLA, KAN.—The TOPEKA BRIDGE CO., of Topeka, Kan., has been awarded contract for constructing steel and cement bridge at Iola.

GLASGOW, MONT.—Bids are asked until Sept. 4 by W. B. Shoemaker, Village Clk., for constructing 150-ft. span combination tubular pier bridge over Rock Creek.

PERRY, OKLA.—The County Commissioners have let contract to the MIDLAND BRIDGE CO., Kansas City, Mo., for constructing five steel bridges.

SEDALIA, COLO.—Bids are asked by T. W. Jaycox, State Engr., at Denver, until noon, Sept. 3, for constructing 100-ft. reinforced concrete bridge across Plum Creek, at Sedalia.

OLYMPIA, WASH.—Bids are asked by the Board of County Commissioners, L. J. Morrison, Clk., until 1.30 p. m., Aug. 27, for constructing bridge across Deschutes River.

MT. VERNON, WASH.—Contract for construction of wagon bridge across Poison Slough has been awarded to J. E. KIMBLE.

ANDERSON, CAL.—Bids are asked by the Board of Supervisors, S. N. Witherow, Clk., until 10 a. m., Sept. 3, for repairing bridge across Sacramento River near Anderson.

ADIN, CAL.—Bids are asked by the Board of Supervisors, L. S. Smith, Clk., until 10 a. m., Sept. 16, for constructing bridge across Ash Creek at Main St.

WHEATLAND, CAL.—The Board of Supervisors has let contract for constructing bridge over Dry Creek near Wheatland to C. W. SWAIN.

YO SEMITE, CAL.—Bids are asked by Maj. H. C. Benson, 14th Cavalry, Acting Supt. Yo Semite National Park, Yo Semite, until noon, Sept. 10, for constructing steel bridge across Merced River, in Yo Semite Valley.

SANTA BARBARA, CAL.—Bids are asked by C. A. Hunt, County Clk., until 10 a. m., Sept. 3, for constructing bridge across San Jose Creek at Hollister Ave., Third Road District; constructing bridge across Santa Inez River, Fourth Road District, and repairing bridge across Santa Maria River, Fifth District.

CARSON, NEV.—The County Commissioners have ordered three bridges constructed across Carson River.

WALLACE, IDAHO.—The County Commissioners have let contract to ROBERT STARKEY for constructing bridge across south fork of Coeur d'Alene River, near Pine Creek.

SANDPOINT, IDAHO.—Bids are asked by the County Commissioners, Ignatz Weil, Clk., until 10 a. m., Sept. 2, for constructing bridge across Pack River.

COEUR D'ALENE, IDAHO.—Bids are being received by the County Commissioners for constructing steel bridge across Spokane River. Estimated cost, $8,000.

MONTREAL, QUE.—The National Transcontinental Ry. Co. has awarded the contract for construction of five steel bridges on the Quebec-La Tuque section of the road to the DOMINION BRIDGE CO., of Montreal, for $150,000.

LETHBRIDGE, ALTA.—JOHN GUNN & SONS, Winnipeg, have secured contract for constructing abutments and concrete superstructure for the Canadian Pacific R. R. bridge, at Lethbridge, for $200,000. The steel work will cost approximately $900,000.

WINNIPEG, MAN.—Bids are asked by Magnus Peterson, Secy. Civic Board of Control, until noon, Sept. 4, for construction of wooden Howe truss bridge, consisting of ten spans of 80 ft. each and one draw span of 160 ft.

BUILDINGS.

(denotes that this work is advertised in Engineering News.)*

BOSTON, MASS.—WILLIAM CRANE, 7 Water St., Boston, has secured the contract for erecting Mechanics' Art High School on Scotia St. for $350,000. Wheelwright & Haven, 100 Boylston St., are Archs.

H. L. Gilman & Co., 32 Linden St., are reported to be preparing plans and will receive bids for 20 4-story concrete, fireproof apartment houses. Estimated cost, $400,000.

*NEW LONDON, CONN.—Bids are asked until 10 a. m., Sept. 4, for repairs and improvements to buildings belonging to the Marine Corps, Naval Station, New London. James Sweeney, Arch., 80 State St., New London. Col. F. L. Denny, Q. M.

WATERBURY, CONN.—The erection of the N. Y., N. H. & H. R. R. station in Waterbury has now been practically arranged for, as the contract with HORTON & HEMENWAY, of 633 Atlantic Ave., Boston, is in shape and only awaits the formality of signature by President Mellen. Estimated cost, $200,000. McKim, Mead & White, 150 Fifth Ave., New York, are Archs.

ALBANY, N. Y.—Dr. A. S. Draper, Comr. of Education, Capitol, on Aug. 15th received the following bids for the construction of the new Normal College at Albany: the M. L. Ryder Building Co., Albany, $415,063, working days, 250; Peter Keeler Co., Albany, $383,840, 650 days; Hudson Valley Construction Co., Troy, N. Y., $409,400, 600 days; J. C. Robinson & Son, New York, $413,730, 365 days; Goldwin Starrett, New York, $449,000, 350 days; A. E. Stephens & Co., Binghamton, N. Y., $358,692, 600 days; Mosier & Summers, Buffalo, $390,000, 500 days; R. T. Ford Co., Rochester, $497,000, 750 days; Morris Kantrowitz, Albany, $437,000, 750 days; Feeney & Sheehan, Albany, $380,000, 500 days. A. E. Stephens & Co. is the lowest bidder, and probably will receive the award.

Bids are asked by the State Commission in Lunacy, Capitol, Albany, N. Y., until 3 p. m., Sept. 4, for construction, heating, plumbing and electric wiring of tuberculosis pavilion at the Willard State Hospital, Willard, N. Y. Also, on the same date, for the work of construction, heating, plumbing and electric wiring of dining-room and kitchen addition to chronic building at the Binghamton State Hospital, Binghamton, N. Y. T. E. McGarr is Secy. of the commission.

BUFFALO, N. Y.—Bids are asked by Henry P. Fink, Clk. Board of Supervisors of Erie County, 36 City and County Hall, until 10 a. m., Sept. 3 (readvertisement), for building an addition and making alterations at the Erie County jail.

GENEVA, N. Y.—Bids are asked by Lyman P. Haviland, Chn. Building Committee, Geneva, until 10 a. m., Sept. 5, for construction, heating, plumbing, electric wiring and gas piping, of three staff residences and two cottages at the New York Agricultural Experiment Station, at Geneva. George L. Heins is State Arch.

*HUDSON, N. Y.—Bids are asked until 1 p. m., Sept. 14, for complete construction, heating, plumbing and electric work for three new cottages and alterations to Industrial Building for N. Y. State Training School for Girls, Hudson. G. L. Heins, State Arch., Albany.

NEW YORK, N. Y.—Neville & Bagge, Archs., 215 West 125th St., have let general contract to WAKEHAM & MILLER, 1133 Broadway, for a church for St. Paul's R. C. congregation, 116 East 18th St. Cost, $100,000.

R. L. Daus, Arch., 130 Fulton St., New York, is receiving estimates for two branch library buildings for the Borough of Brooklyn, for the commissioners for the erection of Carnegie Libraries of Brooklyn.

NEW YORK, N. Y.—Bids are asked by Henry S. Thompson, Act. Boro. Pres., Manhattan, until 2 p. m., Aug. 27, for repairs and alterations to the New York County Court-House, Boro. of Manhattan.

Bids are asked by Robert W. Hebberd, Comr. Public Charities, until 2.30 p. m., Sept. 4, for providing all labor and materials required for the erection and entire completion (with the exception of fitting up) of a new pathological building at the Kings County Hospital, Boro. of Brooklyn.

The Fleischmann Realty & Construction Co., 170 Broadway, is receiving estimates for the 12-story fireproof bank and office building, 36 × 136 ft., which is to be erected at 507 Fifth Ave. Cost, about $300,000. Buchman & Fox, 11 East 59th St., are Archs.

Four bids were received on Aug. 14 by the President, Boro. Manhattan, for furnishing all the labor and material required for general alterations, decorations, etc., to provide additional space in the Criminal Courts Building on the block bounded by Centre, White, Franklin and Lafayette Sts., Manhattan. The A. Feldman Construction Co., Bible House, was lowest bidder, at $20,790.

Carrere & Hastings, Archs., 225 Fifth Ave., have prepared plans for a 7-story theater, to be known as the "New Theater." It is to be erected on Central Park West, 62d and 63d Sts. It will be 200 × 225 ft., with a 25 × 80 ft. extension. The exterior will be of limestone, with a tile and copper roof, and the heating will be by steam. The cost of the building is placed at $1,700,000. MARC EIDLITZ & SON have the contract for the foundation work. Charles T. Barney, 66 Broadway, is Pres.; Otto H. Kahn, 52 William St., is Treas., and Henry Rogers Winthrop, 25 Pine St., Secy. J. Pierpont Morgan, William K. Vanderbilt, H. McKay Twombly, Henry Walters, W. De Lancey Kountze and others are interested.

NEW YORK, N. Y.—C. P. H. Gilbert, 1123 Broadway, has awarded the general contract for the 11-story brick and limestone office building to be erected at 172 and 174 Fulton St., for the N. Y. Law School, to CHARLES A. COWEN & CO., of 1123 Broadway.

The Hensle Construction Co., 175 Claremont Ave., will erect a 6-story apartment house at Riverside Drive and 138th St. It will cost about $200,000. L. A. Goldstone, 110 West 34th St., is Arch.

Neville & Bagge, 215 West 125th St., are architects for an apartment house at Morningside Ave. and 118th St. for the West Side Construction Co. Estimated cost, $250,000.

McKim, Mead & White, Archs., 160 Fifth Ave., have filed plans for a 22-story office building to be built for the Downtown Building Co., of which Harris A. Dunn is Pres., on the block on the north side of Exchange Pl., from Broadway to New St. The building is to be of marble, trimmed with terra cotta, and will have a frontage of 132.5 ft. on Exchange Pl. and 67.4 ft. on Broadway. It is to be equipped with eight public elevators and one private elevator running to the fourth story only. The building is to cost $1,700,000, according to the estimate of the architects.

M. J. Garvin, 3307 Third Ave., is architect for a 3-story school building, 158 × 77 × 150 ft., at Bathgate Ave. and 188th St., for St. Joseph's Institute, Third Ave. and 188th St. Cost, $200,000.

Neville & Bagge, Archs., 215 West 125th St., are preparing plans for a 6-story apartment house, 87 × 120 ft., on the west side of Broadway, near 122d St., for the Times Realty Co., 601 West 136th St. Brick and limestone, terra cotta, fireproof, architectural and structural iron and steel work. Cost, about $175,000.

Alex. M. Welch, Arch., 11 East 42d St., is preparing plans for a 12-story apartment building, at 636 Fifth Ave., for Thos. R. Hall, 39 East 42d St. Brick, fireproof, marble and tile work, structural iron and steel work. Estimated cost, $250,000.

Rouse & Sloan, 11 East 43d St., have completed plans for a 12-story store and office building, 34 × 85 ft., at 12 and 14 West 32d St., for the Pacific Realty Co., 907 Broadway. Estimated cost, $200,000.

EAST ORANGE, N. J.—Bids are asked by Arthur A. Richmond, Chn. Committee on Buildings, Board of Education, City Hall, until 8 p. m., Aug. 26, for the erection of the Lincoln school.

BAYONNE, N. J.—Bids were received on Aug. 8 by the Board of Education as follows: for erecting School No. 9: Calumet Construction Co., 15 East 59th St., New York, $121,742, and J. O'Leary & Son, 39 Cortlandt St., $118,500.

NEWARK, N. J.—Bids for furnishing material and erecting the following school house additions will be received by the Committee on School Houses, Board of Education, until Aug. 23: Belmont Ave. School, Hurd & Sutton, Union Bldg., Archs.; Consult. Engr., Percy B. Taylor, 800 Broad St. Bergen St. School: Alfred Peter, 238 Washington St., Arch.; Consult. Engr., Percy B. Taylor. Bids may be submitted on the following as a whole or separately, except for steam heating and air moving apparatus, which must be bid on separately: Mason and fireproofing work, iron work, carpentering, plumbing, roofing and cornice work, electrical work, steam heating, air moving apparatus, etc. R. D. Argue, Secy. Com.

PHILADELPHIA, PA.—Bids were received as follows Aug. 15, at the office of the Marine Corps, Washington, D. C., for the construction of an addition to the Philadelphia Depot, 1100 South Broad St., Philadelphia, and for furnishing the mechanical equipment for same:

General construction work: Charles McCaul Co., $116,335; Penn Bridge Co., Beaver Falls, Pa., $99,940; A. Raymond Raff, $139,000; Cramp & Co., 1428 Filbert St., $116,980; Rydhouse, Arey Co., $137,664; Fred. A. Havens & Co., $118,584; J. E. & A. Pennock, $112,444; Lynch Bros., $124,945. All are Philadelphia bidders unless otherwise noted.

Mechanical equipment: J. K. Buchanan & Co., $19,590; Jas. J. Quigley & Son, $21,728; Patrick Gormley, $19,462; Robert Leinau, $21,242; Keller, Pike Co., $19,912; Henry F. Murphy & Co., $21,093; John P. Smith, $20,260; W. Drummond Marrow, Greensboro, N. C., $1,733 (electrical work only). All are Philadelphia bidders unless otherwise noted.

SPRING CITY, PA.—Bids were received as follows on Aug. 9 at the office of the Governor at Harrisburg for erecting a hospital for feeble-minded and epileptics near Spring City: Doak & Co., Philadelphia, $514,645; McCaul & Co., of Philadelphia, $462,951; Rong & Co., of Wilkes-Barre, $490,115, and John R. Wiggins & Co., 1215 Filbert St., Philadelphia, $430,600. The contract for the erection of five buildings and dormitories is reported to have been awarded to Wiggins

& Co., on Aug. 12, for $251,504. The contract for grading and excavating same was awarded to McCormick & Co., of Philadelphia, for $53,188. Noted on July 28.

PHILADELPHIA, PA.—Bids were received on Aug. 15 by Col. F. L. Denny, Q. M., for the construction of an addition to the Philadelphia Depot, 1100 South Broad St., Philadelphia. The building will be five stories and basement, 80 × 104 ft., fireproof, brick, steel, concrete and terra cotta. General construction contract was awarded to the PENN BRIDGE CO., Beaver Falls, Pa., at $99,940. Mechanical equipment, PATRICK GORMLEY, Philadelphia, at $19,837.

PITTSBURG, PA.—Thomas Rodd, Ch. Engr., Pittsburg, has prepared plans for railroad shops, roundhouse, power plant and coaling station, at the Conway yards, 15 miles west of Allegheny, for the Pennsylvania R. R. Co. Estimated cost, $700,000.

POLK, PA.—F. J. Osterling, Arch., Times Bldg., Pittsburg, has prepared plans for three 2-story buildings for the State Institute for Feeble Minded, Polk. Estimated cost, $100,000.

HARRISBURG, PA.—A 6-story hotel may be erected by Mrs. R. H. Graupner at Fifth and Market Sts., at a cost of $150,000.

COLUMBIA, S. C.—Bids are asked by W. D. Starling, Superv., until Sept. 5 for additions, alterations and roofing the court-house. Shand & La Faye, Archs., 1328 Main St.

AUGUSTA, GA.—The City Hall Commissioners, W. L. Martin, Secy., announce that $200,000 be expended for construction of the proposed city hall. Lewis F. Goodrich, 115 Eighth St., Augusta, will prepare plans and specifications.

*SELMA, ALA.—Bids are asked until 3 p. m., Sept. 30, for construction (including plumbing, gas piping, heating apparatus, electric conduits and wiring) of the U. S. post-office at Selma. James Knox Taylor, Supervis. Arch., Treasury Dept., Washington, D. C.

MONTGOMERY, ALA.—The Selden-Breck Construction Co., St. Louis, Mo., has let plumbing contract to T. J. MOANEY, Nashville, Tenn., for a 10-story hotel for Gag Teagul Hotel Co., Montgomery. Total cost will be $200,000.

BIRMINGHAM, ALA.—The County Board of Revenue has decided to expend from $75,000 to $100,000 for proposed alterations and repairs to county jail.

NASHVILLE, TENN.—City will vote on Sept. 12 on issuance of $300,000 of bonds for erection of school building.

The Jail Committee has awarded contracts in connection with jail building as follows: Heating and ventilation, T. J. MOONEY & CO., $8,465; foundations, FOSTER & CREIGHTON CO. (bid upon by the yard); cell and iron work for cages, etc., STEWART JAIL WORKS CO., Cincinnati, Ohio, $69,470; front stone work, BARDON-FULCHER CUT STONE CO., $4,333; brick work, E. T. LEWIS & CO., $52,253; reinforced concrete work, OMAN STONE CO., $18,000.

KNOXVILLE, TENN.—The Knoxville Banking & Trust Co. has awarded contract to the GEO. A. FULLER CO., Fuller Bldg., New York, for construction of proposed office building, which will be ten stories high, of steel construction; first two floors of marble and terra cotta, other upper floors of light colored brick. Cost, $165,000. Richards, McCarty & Bullford, of Cleveland, Ohio, Archs. Noted on July 18.

LOUISVILLE, KY.—The Glencoe Distillery Co. will build a new warehouse, 120 × 150 ft., at 25th St. and Broadway. Cost, $150,000. Fred. Erhart is Arch., Norton Bldg.

DAYTON, OHIO.—The trustees of Dayton State Hospital will have plans prepared for a 4-story or 5-story hospital building. Cost, $150,000.

CLEVELAND, OHIO.—Bids are asked by Clerk, Board of Education, East Sixth St., until noon, Sept. 9, for completing an annex to the Harvard school. Charles Orr, Dir. of Schools.

Bids are asked by A. R. Callow, Secy. Board of Public Service, 105 City Hall, until noon, Aug. 28, for the superstructure for a market house, at northeast corner West 25th St. and Lorain Ave. W. J. Springborn, Pres.

F. S. Barnum, Supt. Bldgs., Bd. Education, is preparing plans for a high school to be erected at East 107th St., at a cost of $200,000.

OBERLIN, OHIO.—Cass Gilbert, Arch., 11 East 24th St., New York, has let general contract to GEORGE FEICK, Sandusky, Ohio, for a 1-story stone and concrete chapel, 110 × 163 ft., on the college grounds for Oberlin College, Oberlin. Cost, $125,000.

LIMA, OHIO.—Bids were received as follows on Aug. 13 by the Memorial Commission for a new Memorial Hall for Allen County: John Sueltzer, Fort Wayne, Ind., $96,535; Smith & Sherrick, Lima, $99,500; H. Ellenberger, Chicago, $102,980; J. O. Bullinger, Portland, Ind., $100,000; B. F. Zadeck, Chicago, $116,230; Superior Contracting Co., Toledo, $112,400; Noel Contracting Co., Dayton, $103,500; Val Heil, Lima, $105,038.

TERRE HAUTE, IND.—We are officially advised that plans submitted by Vonnegut & Bohn, Indiana Trust Bldg., Indianapolis, for the new office building of the Terre Haute Trust Co., at Seventh and Main Sts., have been adopted by the committee in charge of this part of the work. Bids will be asked about Sept. 1. It will be brick and terra cotta, eight stories, fireproof, 50 × 130 ft. Estimated cost, $175,000.

The following bids were received on Aug. 5 by Board Trustees, Indiana State Normal School, for erecting a library: Solomon Brewer, of Terre Haute, $97,643; W. F. Stillwell, of La Fayette, $107,007; the Bedford Stone & Construction Co., of Indianapolis, $113,473, and John A. Schumacher, of Indianapolis, $118,000; AUGUST OHM, of Terre Haute, $93,000 (awarded contract).

BAY CITY, MICH.—F. V. Newell, Arch., 78 La Salle St., Chicago, awarded general contract to CHAS. A. MOSES, Chamber of Commerce Bldg., Chicago, for a hotel for the Winonah Building Co., Bay City, at $200,000.

NORTH CHICAGO, ILL.—Bids were opened as follows Aug. 15, at the office of the Bureau of Navigation, Navy Dept., Washington, D. C., for the construction of twelve additional buildings at the naval training station, Great Lakes, North Chicago, Ill.: Northern Construction Co., Milwaukee, Wis.: general storehouse, $70,000; boat-house, $60,000; brig, $24,300; stable, $23,830; receiving building, $28,640; receiving galley and laundry, $26,000; six dormitories, $134,499; total, if awarded entire contract, $370,000. Noel Construction Co., Baltimore, Md.: storehouse, $72,428; boat-house, $61,062; brig, $25,227; stable, $23,821; receiving building, $40,796; receiving galley and laundry, $24,611; six dormitories, $144,055; total, if awarded entire contract, $392,000. McArthur Bros., Chicago, entire contract, $397,475.

CHICAGO, ILL.—Holabird & Roche, Archs., Monadnock Block, are preparing plans for a club-house, at the northwest corner of Monroe St. and Michigan Ave., for the University Club. It is to be eight stories high, 68 × 171 ft., built of brick, stone and fireproof construction, and will cost approximately $1,000,000.

The Steele-Wedeles Co., 170 South Water St., will erect a 10-story warehouse on Dearborn Ave. immediately north of the Chicago River. The building will cost $300,000. It has been designed by H. L. Ottenheimer, Arch., 134 Monroe St. The property is 80 × 160 ft., east front, and lies between the right-of-way of the Chicago & Northwestern Railroad and the river.

ST. PAUL, MINN.—It is reported that the City Council has decided in favor of a bond issue of $645,000 for erection of four new schools as follows: Sixth Ward school, cost $75,000, exclusive of site, and shall accommodate 350 pupils; the East End building, $100,000, exclusive of site, and to seat 450 pupils; the Mechanic Arts building, near the present site of the Central high, $200,000, and to seat 800 pupils; the West End building, $225,000, and to seat 1,100 pupils.

ST. PAUL, MINN.—GEO. J. GRANT, 61 East Ninth St., has secured the contract for erecting a 5-story stone, brick and concrete building, for hall and lodge rooms, at Ninth and Cedar Sts., for the Y. M. C. A. Cost, about $300,000.

DULUTH, MINN.—John Christie will receive bids about Aug. 24 for a 6-story reinforced concrete office building. W. T. Bray, 610 Palladio Bldg., Arch.; E. K. Coe, Consult. Engr., 1411 East Third St.

DILLON, MONT.—The Oregon Short Line R. R. Co. may spend about $250,000 on improvements here, to consist of a new passenger depot, a new freight depot, the parking of the grounds about the new station and a general rearrangement of the yards. William Ashton, Ch. Engr., Salt Lake City, Utah.

KANSAS CITY, MO.—Chas. A. Smith, Arch., Dwight Bldg., has let general contract to the FORRESTER-SWENSON CONSTRUCTION CO., for the 3-story high school building, at Westport, for Board of Education, at $243,000.

J. W. McKechnie, Arch., New York Life Bldg., has prepared plans and will receive bids for a 7-story office building, 40 × 70 ft., at 921 Walnut St., for the Gloyd Lumber Co., Long Bldg. Cost, about $200,000.

ST. LOUIS, MO.—T. C. Link, Arch., 308 North Sixth St., is receiving bids for several buildings for the Robert A. Barnes Hospital. Total cost, $135,000.

Cass Gilbert, Arch., 11 East 24th St., New York, will have plans ready about Nov. 1 for a library building, at Olive and 14th Sts., St. Louis, for the St. Louis Public Library, Ninth and Locust Sts. Cost, about $1,200,000.

LEVY, ARK.—The parish of the Roman Catholic Church here contemplates constructing an orphanage to cost $100,000.

GALVESTON, TEX.—H. C. Banker, of Orange, has been engaged to prepare plans for constructing hotel to be erected in Galveston. Cost, $125,000.

SAN ANTONIO, TEX.—Mauran, Russell & Garden, Archs., Chemical Bldg., St. Louis, Mo., have let general contract to the WESTLAKE CONSTRUCTION CO., 717 Locust St., St. Louis, for an 8-story hotel, at San Antonio, to cost about $600,000.

TACOMA, WASH.—The WESTERN ENGINEERING CO., of Tacoma, has contract for building the 12-story office building for Peter Sandberg. Noted last week.

PORTLAND, ORE.—Charles R. Aldrich, Arch., Seattle, Wash., has prepared plans for a building to cost $675,000 to be erected at Washington, Stark, Tenth and Park Sts. He has also prepared plans for a building to cost $485,000 to be erected at Alder, Morrison, Park and Tenth Sts. Both buildings will be owned by the Trustee Co., 702 Second St.

MacNaughton, Raymond & Lawrence, Archs., have prepared plans for a Y. M. C. A. building to be erected at Seventh and Taylor Sts. Cost, $700,000.

AGNEWS, CAL.—Plans are reported under consideration for the hospital to be erected here at a cost of about $800,000 by the State Lunacy Commission, to replace present structure. Geo. C. Sellon is State Arch.

SAN FRANCISCO, CAL.—The Marvin Estate will erect a 7-story and basement brick fireproof building on California St., near Drumm St. Cost, $200,000.

Boardman & Tompkins will erect a 5-story steel and brick store and loft building at California and Front Sts., to cost $100,000.

Meyerstein & Rothchild will erect a 6-story Class C building on Grant Ave. and Geary St., to cost $105,000.

OAKLAND, CAL.—The Southern Pacific Railway Co. has secured permission from the Board of Public Works of Oakland to erect the first of a large number of buildings it is planning for its terminals at the Oakland mole. The immediate structures planned are a large roundhouse, a sand-house, several oil tanks, a repair shop, and some smaller structures, the estimated cost for construction being about $158,000.

SALT LAKE CITY, UTAH.—Plans for the erection of new car houses, shops, office buildings and a club-house have been approved by W. H. Bancroft, Pres. of the Utah Light & Railway Co. The plans call for an expenditure of $635,639, and the work is to be commenced at once. The improvements will be made on the old exposition square at Sixth and Seventh East, and Fifth and Sixth South Sts.

SHERBROOKE, QUE.—Bids are asked by Fred. Gelinas, Secy. Dept. of Public Works, Ottawa, Ont., until Aug. 29 for the construction of a drill hall at Sherbrooke.

SUDBURY, ONT.—Bids are asked by H. F. McNaughton, Secy. Public Works Dept., until Aug. 27, for erecting a court-house and registry office at Sudbury.

OTTAWA, ONT.—The plans and specifications of the proposed new central station and hotel, at Ottawa, have been submitted the Government for approval, by the Ottawa Terminals Ry. Co., which is to build the station. The work of construction must be commenced within six months from the date of the approval of such plans. The Ottawa Terminals Co. was organized by the Directors of the Grand Trunk Ry. for the purpose of erecting a central station, and it has been agreed to erect a grand hotel in connection therewith. According to the plans, the hotel will front on Rideau St. and will extend from the Canal to the Cory Bldg., the main entrance being on a level with the Sapper's Bridge and close to it. The station will be a 3-story structure, oblong in shape, situated behind the hotel and facing Little Sussex St. Charles M. Hayes, Montreal, is Mgr. G. T. Ry.

VANCOUVER, B. C.—Hermon & Burwell, Archs., are preparing plans for a stone college building to cost $100,000. Bids for construction will be called for soon.

MACDONALD, SNYDER & WILSON, of this city, have received the contract for the erection of the new court-house, to cost $400,000. Fittings and furnishings are estimated to cost $100,000.

WATER SUPPLY—IRRIGATION.

(denotes that this work is advertised in Engineering News.)*

CORTLAND, N. Y.—The Legislature has authorized Cortland to construct or acquire water-works system. The city is authorized to acquire all the plant, franchises, water rights, etc., of the Cortland Water-Works Co., either by purchase or by condemnation proceedings, or the city may proceed to construct a new water-works system provided approval of the electors is obtained. The following have been appointed water commissioners: George Cooper, A. A. Carley, Albert Allen, Bryant Winchell, Henry Corcoran and Fred. Nourse. Grove T. Maxon is Mayor.

OLD FORGE, N. Y.—A water-works system, including stand pipe, will be constructed. Francis K. Baxter, of Utica, N. Y., is Engr.

NEW YORK, N. Y.—Bids are asked by the Department of Water Supply, Gas and Electricity, John H. O'Brien, Comr., until 2 p. m., Aug. 28, for laying water mains in various streets, Boro. of Brooklyn.

*PAULSBORO, N. J.—Bids are asked by Charles M. Gwilliam, Boro. Clk., until Aug. 29, for purchasing water ($46,000) and gas bonds ($35,000).

ORANGE, N. J.—Bids are asked by the Common Council until Sept. 9 for furnishing material and constructing reinforced reservoir and gatehouse in West Orange. Fred. T. Crane is City Engr.

BALTIMORE, MD.—The Evergreen Lawn Land & Improvement Co., 305 Calvert Bldg., Baltimore, will establish water supply at Evergreen Lawn, including 200,000-gallon reservoir.

NEWTON, MISS.—The Board of Aldermen has awarded contract to SPERRY & LUKINS, of Artesia, N. Mex., for boring artesian well to supply water to the water-works system.

JACKSON, MISS.—Bids are asked by the Board of Aldermen until Sept. 3, for purchasing bonds amounting to $216,000, to be used for purchasing present water-works plant. A. P. Lusk is City Clk.

ERWIN, TENN.—A franchise has been granted to A. R. Brown for construction of water-works.

ZANESVILLE, OHIO.—Bids are asked by the Board of Public Service, P. J. Kerwin, Secy., until noon, Aug. 23, for installing pump at Water-works Power House No. 2. E. H. Smith is City Engr.

CLEVELAND, OHIO.—The Board of Public Service recently awarded contract to the BUFFALO METER CO., Buffalo, N. Y., for furnishing 5,000 water meters, with privilege of increasing order to 10,000. W. J. Carter is City Engr.

MILLTOWN, IND.—W. H. Roose, of Corydon, has secured franchise for water-works. Estimated cost, $15,000. Contract will probably be let in October.

KEWANNA, IND.—The Kewanna Water Co., of this city, has been incorporated with capital stock of $15,000. The directors are: L. O. Leasure, William D. Evans and Charles M. Snepp.

TERRE HAUTE, IND.—Bids will soon be asked by the County Commissioners for improving the county jail. The work will include constructing water-works system, heating plant and laundry. Estimated cost, $75,000.

*GROSSE POINTE FARMS, MICH.—Bids are asked by J. G. Armstrong, Village Clk., until 8 p. m., Aug. 31, for furnishing and laying about 2¾ miles of 6, 8 and 10-in. c.-i. water pipes, including 33 fire hydrants, valves, etc.

MIDDLETOWN, ILL.—The City Council contemplates constructing water-works system.

CHICAGO, ILL.—Bids are asked until Aug. 31, by John J. Hamberg, Comptr. Pub. Wks., for furnishing and delivering about 2,100 1-in., 1¼-in., 1½-in., 2-in., 3-in., 4-in. and 6-in. water meters.

FOND DU LAC, WIS.—Bids are asked until Aug. 26 by the Board of Public Works, L. A. Pettibone, Chn., for furnishing material and constructing gravity water pipe line from Lake Winnebago to Reed St. L. A. Pettibone is City Engr.

WESLEY, IOWA.—At a recent election the citizens voted to construct water works. Oscar Nelson is Mayor.

BELLEPLAINE, MINN.—The contract for constructing water-works has been let by the Borough Council to W. D. L. ELL, 1415 Southeast Eighth St., Minneapolis, at $10,000. Oscar Claussen, National German-American Bank Bldg., St. Paul, is Consult. Engr.

BEAVER CITY, NEB.—The election held Aug. 5 resulted in favor of issuing bonds for constructing water-works.

MITCHELL, NEB.—The Secretary of the Interior has awarded contract to BYAL & CO., of Mitchell, Neb., for construction of siphons, culverts, sluiceways and lateral headworks in the vicinity of Mitchell, Neb., in connection with the North Platte Irrigation Project, Interstate Canal, Neb.-Wyo., for $90,853.

BELLE FOURCHE, S. DAK.—The Secretary of the Interior has awarded contracts in connection with the Belle Fourche Irrigation Project, S. Dak., as follows: H. T. ADAMS, of Belle Fourche, for construction of Sec. 2, Schedule 1, of the laterals, to consist of nine miles of ditch, and involving 54,950 cu. yds. excavation, for $15,287; J. E. HILTON, of Belle Fourche, portion of south canal, involving 229,500 cu. yds. excavation, $46,000, and J. W. McNEEL, of North Platte, Neb., about 19 miles of the Indian Creek lateral, involving 236,950 cu. yds. excavation, $53,007.

WAHPETON, N. DAK.—Bids are asked by Wm. R. Purdon, City Audr., until Aug. 24, for installing boilers at the water-works plant. The boilers to be 66-in. × 18 ft. and 72-in. × 18 ft.

CARRINGTON, N. DAK.—Bids are asked by the City Council until 2 p. m., Sept. 2, for constructing steel stand pipe and foundation. H. L. Winterer is City Audr.

SANDERS (Howard post-office), MONT.—Bids are asked by the Sanders Co-Operative Ditch Co., of Sanders, until noon, Aug. 31, for constructing irrigation ditch. The work consists of excavating and placing in embankment approximately 175,000 cu. yds. of material. J. R. Thompson is Secy. Henry Gerharz, Billings, Mont., is Engr.

ARKANSAS CITY, ARK.—We are officially informed that the Commissioners of Drainage, District No. 1, of Arkansas City, have awarded the contract for constructing six miles drainage ditch, 60 ft. wide and 10 ft. deep, to G. A. McWILLIAMS, of Walnut, Ill., for $42,000.

ROYSE CITY, TEX.—A water-works system will be constructed. Estimated cost, $15,000.

FT. WORTH, TEX.—Plans for constructing filtration plant are being prepared by John B. Hawley, City Engr.

HOLLY, COLO.—The Town Council has granted franchise to R. H. Graham for water and lighting systems.

STERLING, COLO.—Bids are asked by D. A. Bartholow, of Sterling, Secy. North Sterling Irrigation District, until Aug. 28, for constructing reservoirs, ditches, etc. Estimated cost, $1,400,000. Walter Pearl, 204 Commonwealth Bldg., Denver, Colo., is Engr.

PAONIA, COLO.—The Mt. Lamborn Canal & Reservoir Co. has been incorporated with capital stock of $100,000. The incorporators are: H. L. Moller, A. L. Binford and O. C. Hawkins. The company will construct reservoir at east branch of Minnesota Creek and store water in Minnesota Creek.

HARRINGTON, WASH.—A water-works system will be installed. Estimated cost, $22,000.

PILOT ROCK, ORE.—A water-works system will probably be constructed. Estimated cost, $8,000.

ASTORIA, ORE.—Bids are reported being received for supplying 250 ft. corrugated metal pipe to replace wooden overflow pipe from reservoir.

OAKDALE, CAL.—Bids are asked by the High School Board until Aug. 23, for constructing water-works system for the Oakdale Union High School. Dr. E. Schneller is Secy. of School.

RIVERSIDE, CAL.—The Crestmore Townsite Co. has awarded contract for laying water pipes, etc., for entire townsite, to W. W. WILCOX, of Colton.

DOUGLAS, ARIZ.—The Southwest Irrigation Co. will construct 200-ft. dam north of Douglas.

VICTORIA, B. C.—Bids are asked by W. W. Northcott, City Pur. Agt., until Sept. 3, for supplying 5,000 ft. 6-in. and 15,000 ft. 4-in. c.-i. water piping.

SEWERAGE.

(denotes that this work is advertised in Engineering News.)*

GARDNER, MASS.—An appropriation of $15,000 has been voted for extending sewers and constructing sewage disposal plant.

NEW YORK, N. Y.—Bids are asked by Joseph Bermel, Pres. Boro. of Queens, until 11 a. m., Aug. 29, for constructing sewers, etc., in various streets, Boro. of Queens.

KINGSTON, N. Y.—Bids are asked by the Board of Water Supply, 299 Broadway, New York, until 2 p. m., Sept. 3, for constructing portion of intercepting sewer in Kingston.

TROY, N. Y.—The Board of Contract and Supply has awarded contract to JOHN FLYNN for constructing sewer in portion of Congress St., at $12.14 per ft. Edward B. Cary is City Engr.

WESTFIELD, N. J.—The Town Council has awarded contract for constructing about 2½ miles of sewers to the NEW JERSEY CONTRACTING & ENGINEERING CO., 325 Badger Ave., Newark, N. J., for about $30,-000. A. W. Carrs is Town Surv.

PLAINFIELD, N. J.—We are officially advised that the Common Council, Aug. 12, awarded contract for constructing sanitary sewers to FOSTER CALLAHAN, of Elizabeth, N. J., for $24,089. The following bids were also received Aug. 5: John Callery, Weehawken, N. J., $26,058; C. M. Meeker, Plainfield, $25,083; E. W. Chamberlain, Westfield, N. J., $32,914; Cavalluzzo & Zizzo, Newark, N. J., $40,454; James J. Fusco, Montclair, N. J., $35,853; MacMenamin & Hillpot, Round Brook, N. J., $29,520; Warren B. Travell, 816 Third Pl., Plainfield, $27,-531; T. J. McGovern, Trenton, N. J., $38,-704, and Eveline Bros., New Britain, Conn., $30,272. Andrew J. Gavett is City Surv.

We are officially advised that bids were also received Aug. 5 by the Common Council for constructing storm sewers as follows: Eveline Bros., $17,176; C. M. Meeker, $7,-465; T. J. McGovern, $15,518; Warren B. Travell, $8,953; Arthur E. Smith, Plainfield, $7,873, and MacMenamin & Hillpot, $10,351.

*RIVERSIDE, N. J.—The date for receiving bids for constructing sewerage system has been extended to 8 p. m., Sept. 2. The work consists of laying about ten miles of 8 to 24-in. sewers, pump house, engines, pumps, pump well and disposal works. Irven Kolle is Township Clk. Wm. H. Boardman is Engr.

ASBURY PARK, N. J.—We are officially advised that the lowest bid received Aug. 17 by the Department of Water and Sewers, John L. Coffin, Supt., for constructing 1,-200 ft. 12-in. w.-i. sewer outlet pipe, extending seaward from tide mark, was submitted by A. B. Marsden & Co., of Utica, N. Y., at $4,900. Niart Rogers is City Engr.

GREENVILLE, PA.—Contract for constructing lateral and terminal sewers has been let to F. E. McQUISTON, of Butler, Pa., for $17,986. J. M. Hittle is Boro. Secy.

ALLEGHENY, PA.—Contract for constructing the Woods Run Ave., sewer has been let to T. CRONIN & CO., for $4,302. OTT BROTHERS secured the contract for constructing Ley St. sewer, a t$1,189. Edward J McIlvaine is Dir. Pub. Wks.

NEW CASTLE, PA.—The following contracts for constructing sewers have been awarded by the City Council: Harrison St., sanitary sewer, J. L. SOMERS & SON, $2,-815; main sewer extension from Front to Grant Sts., GEORGE WALLER & CO., $14,-880; Mahoning Ave., storm sewer, FERRY & CO., $8,141. C. H. Mulholland is City Engr.

PHILADELPHIA, PA.—The following bids were received July 22 by the Department of Public Works, John R. Hathaway, Dir., for constructing sewers in connection with abolishing grade crossings on the P. G. & N. and Richmond Branch of the P. & R. Ry. for (a), Contract 101, P. G. & N. Elevated; (b), Contract 102, P. G. & N. Elevated; (c), Contract 103, P. G. & N. Elevated; (d), Contract 104, P. G. & N. Elevated; (e), Contract 105, P. G. & N. Elevated; (f), Contract 106, Richmond Branch Elevated; (g) Contract 107, Richmond Branch Elevated; MILLARD CONSTRUCTION CO., (a) $32,862, (awarded contract), (b) $39,685, (c) $45,-957 (awarded contract), (d) $75,204 (awarded contract,) (e) $39,763, (awarded contract), (f) $33,437, (g) $45,463; Mack Paving Co., (a) $56,027, (b) $54,144, (c) $85,572, (d) $1235,-530, (e) $60,302, (f) $63,440, (g) $92,097; David Peoples, (a) $37,251, (b) $41,403, (c) $60,256, (d) $100,096, (e) $55,849, (f) $36,-394, (g) $46,412; R. P. Bennis, (d) $92,600, (e) $41,082; Michael O'Rourke, (f) $45,152, (g) $64,568; DAVID McMAHON, (a) $41,-175, (b) $35,452 (awarded contract), (c) $51,-127; Robt. Higgins, (a) $48,512; (b) $39,222, (c) $57,934; M. & J. B. McHugh, (a) $42,-876, (b) $43,202, (c) $65,260, (g) $57,408; McGaw & Gray, (a) $55,996, (b) $56,350, (c) $87,902, (e) $65,239; Lombardie & Pascuzzie, (b) $42,610, (g) $60,235; John McMenamy, (c) $104,858, (f) $50,849, (g) $77,287; Robert P. Ryan, (a) $43,766, (b) $50,595, (f) $62,305, (g) $76,557. George S. Webster is Ch. Engr. Bureau of Surveys.

SUTTON, W. VA.—HAMILTON & HUFFMANN have been awarded contract for constructing sewers, pavements and curbs, at $25,000.

COLUMBIA, S. C.—Bids are being received by A. W. Edens, Inspector of Sewers, for constructing 3,750 lin. ft. 8-in. sewers, 16 manholes and two flush tanks. E. N. Chisolm, Jr., is City Engr.

CLIFTON, GA.—A sanitary sewerage system will be constructed. Estimated cost, $15,000.

MOBILE, ALA. — Bids will probably be asked for soon for constructing 12 to 36-in. storm sewers. Estimated cost, $53,000. Wright Smith is Ch. Engr., Bd. Pub. Wks.

ALEXANDRIA, LA.—Bids are asked by the Board of Aldermen until Sept. 3, for constructing about five miles of 8, 10, 12 and 14-in. pipe sewers, together with manholes, etc. Ira W. Sylvester is City Engr.

*CANTON, OHIO.—Bids are asked by the Board of Public Service, B. F. Faust, Clk., until noon, Sept. 3, for constructing storm water and sanitary sewer. Estimated cost, $9,945. W. E. Sarver is City Engr.

CANAL DOVER, OHIO.—Bids are asked until Aug. 31 for constructing sewers. Estimated cost, $18,037.

YOUNGSTOWN, OHIO.—Bids are asked until Aug. 26, by the Board of Public Service, W. H. Mullin, Clk., for constructing sewers in portion of Falls Ave. F. M. Lillie is City Engr.

Plans are being prepared by F. M. Lillie, City Engr., for constructing sewer in Mt. Pleasant St.

BLOOMFIELD, IND.—Bids are asked by the Board of Trustees, Charles E. Coombs, Pres., until Aug. 26, for constructing sewers, etc. George Cadogan Morgan, 169 Jackson Boulevard, Chicago, Ill., is Engr.

RICHMOND, IND.—Bids are asked by John F. Taggert, City Clk., until Aug. 30, for constructing sewerage system four miles in length in southwest portion of the city. The system will include sewage disposal plant. Estimated cost, $50,000. Fred. R. Charles is City Engr.

FLINT, MICH.—The Council has awarded contract to A. P. SOUTHWORTH, of Adrian, Mich., for constructing storm water sewer in the Oak Park factory district, for $9,951. D. E. Newcombe is City Clk.

HERRIN, ILL.—A sewerage system will be constructed. Estimated cost, $200,000. Fred. E. Roland is City Clk. W. T. Pierce, of Herrin, is Engr.

MINOOKA, ILL.—A sewerage system will probably be constructed. Estimated cost, $25,000. C. R. Denson is City Clk. Wm. Meyer, of Minooka, is Engr.

LAKEMILLS, WIS.—Bids are asked by N. H. Falk, City Clk., until 7.30 p. m., Sept. 13, for construction of approximately 1,887 ft. 6-in.; 1,887 ft. 8-in.; 1,225 ft. 10-in.; 823 ft. 12-in.; 1,513 ft. 15-in.; 75 ft. 18-in.; and 2,367 ft. 24-in. vitrified pipe sewers, 26 manholes and 10 catchbasins. W. G. Kirchoffer, 31 Vroman Bldg., Madison, Wis., is Engr.

MILWAUKEE, WIS.—The Board of Public Works is preparing to extend sewerage system in the west sewerage district. Charles G. Poetsch is City Engr.

NORTH MILWAUKEE, WIS.—The contract for laying 15,300 ft. of 6, 8, 10 and 15-in. vitrified pipe sewers has been awarded to F. E. KAMINSKI, of Berlin, for $11,950.

BELOIT, WIS.—Bids are asked by the Board of Public Works until 10 a. m., Sept. 4, for constructing sanitary sewers in various streets. R. R. Caldwell is City Engr.

CLEAR LAKE, IOWA.—The question of constructing sewerage system is under consideration.

MUSCATINE, IOWA.—Bids are asked until Aug. 26 by the City Council for constructing vitrified tile sewers in portions of various streets. Edw. H. Ruby is City Clk.

BRYANT, S. DAK.—Bids are asked by F. R. Shepherd, City Audr., until Sept., 9, for constructing drainage and sewerage system. J. M. Raymond, of Raymond, S. Dak., is Engr.

GRAND RAPIDS, N. DAK.—Bids are asked by the City Council until Sept. 2 for constructing lateral sewer. W. V. O'Connor is City Audr.

BILLINGS, MONT.—Plans are being prepared for constructing main sewer of 12 to 21-in. pipe and 3,500 lin. ft. of 5 × 8 ft. concrete culvert. Estimated cost, $87,000. Henry Gerharz is City Engr.

PARAGOULD, ARK.—A sewerage system will probably be constructed. Estimated cost, $200,000.

WACO, TEX.—The contract for constructing about 15 miles of sanitary sewers has been awarded to CHARLES DERR, of Oklahoma City, Okla., at about $50,000.

LAWTON, OKLA.—KERBY, MAYFIELD & SHAW have been awarded contract for constructing storm sewer extension for $32,-962. John D. Hennard is City Engr.

ALAMOSA, COLO.—Plans are being prepared by B. D. Critchlow, of Alamosa, for constructing sewerage system.

LODI, IDAHO.—A sewerage system will probably be constructed.

MULLAN, IDAHO.—The question of constructing sewerage system is being considered.

OAKLAND, CAL.—The contract for constructing outfall sewers at foot of Webster and Grove Sts., has been awarded to the SUNSET CONTRACTING & SUPPLY CO., for $11,544 and $17,737, respectively. C. W. Cross is City Engr.

FERNIE, B. C.—Bids are asked by J. W. Nunn, City Clk., until Aug. 23 for construction of covered concrete septic tank, 100 × 30 ft. Robt. Potter is City Engr.

STREETS AND ROADS.

(denotes that this work is advertised in Engineering News.)*

SKOWHEGAN, ME.—Hiram Moore is reported to have secured contract for constructing 5½ miles of road.

PROVIDENCE, R. I.—Bids are asked until noon, Sept. 4, for the construction of sections of State highways in the following towns: Glocester and Burrillville, about 5,-280 ft. in length; East Providence, about 10,000 ft.; Lincoln, about 3,000 ft.; Foster, about 5,280 ft.; Coventry, about 31,680 ft.; Tiverton, about 2,640 ft.; Little Compton, about 5,280 ft.; Jamestown, about 5,280 ft.; Portsmouth, about 3,000 ft; Glocester, about 10,560 ft.; Richmond, about 5,280 ft.; Narragansett, about 7,920 ft.; Warwick, about 15,840 ft. Plans, specifications and drawings may be examined at the office of the State Board of Public Roads, at the State House, Providence, R. I., on and after Aug. 28. Arthur H. Blanchard, Asst. Engr.

*ELMIRA, N. Y.—Bids are asked until 11 a. m., Sept. 4, by the Board of Public Works for paving Railroad Ave. with vitrified block and asphalt on a concrete foundation. There will be required about 2,200 sq. yds. of pavement and 2,090 lin. ft. of curbing. S. F. Warner, City Clerk.

*JAMESTOWN, N. Y.—Bids are asked until noon, Sept. 2, for constructing approximately 23,000 ft. of cement curb and gutter, 36 concrete catch basins, ten manholes. C. G. Jones, City Engr.

NEW YORK, N. Y.—Bids were received as follows on Aug. 19 by J. A. Bensel, Comr. of Docks, for Contract No. 1096: For furnishing all the labor and materials required for grading and constructing pedestrian approaches to the ferries between West 22d and West 23d Sts., North River, and for granite pavement between West 13th and West 14th Sts., North River, on the Chelsea section, Boro. Manhattan: O'Brien Bros., 54 South St., 47 cts. per yd.; Bouker Contracting Co., 17 State St., 55 cts.; H. Miller, 129 Broad St., 52½ cts.

NEW YORK, N. Y.—Bids are asked by the Department of Parks, Moses Herrman, Pres., until 3 p. m., Aug. 29, for furnishing and delivering North River road gravel for drives in Central Park.

Bids also are asked at the same time for paving, curbing, etc., in portions of various streets.

Bids are asked by Bird S. Coler, Pres. Boro. of Brooklyn, until 11 a. m., Sept. 4, for regulating, grading, paving, etc., portions of various streets.

ROCHESTER, N. Y.—The Board of Contract and Supply has awarded to F. C. LAUER & SONS CO. the contract for paving with Shawmut brick Driving Park Ave., from Dewey Ave. to the city line, for $31,770. Edwin A. Fisher is City Engr.

*BRIDGETON, N. J.—Bids are asked by George Reeves, Chn. Pub. Road Com. of the Board of Chosen Freeholders of Cumberland County, until noon, Sept. 11, for improving portion of Maiaga Road, about 5.75 miles in length. The work includes approximately 16,420 cu. yds. of earth excavation, 9,232 cu. yds. compact gravel, arch bridge at Burnt Mill Stream, ten feet additional to present bridge at Blackwater Stream and box culvert, 2½ × 30 ft. at Station No. 215.

NEWARK, N. J.—B. M. SHANLEY SONS CO., 859 Broad St., Newark, has secured contract for constructing 18,000 sq. yds. of roadway in Weequahic Park, for $15,480. M. R. Sherrerd is City Engr.

PLAINFIELD, N. J.—We are officially advised that the Common Council Aug. 12 awarded contract for constructing 15,792 sq. yds. brick pavement, 1,035 lin. ft. new curb and resetting 1,400 lin. ft. curbing, with under drains, etc., to C. M. MEEKER, of Plainfield, for $39,441. The following bids were also received Aug. 5: Eveline Bros., New Britain, Conn., $55,536; Russell Contracting Co., 156 Fifth Ave., New York, three bids, $44,337, $46,390 and $44,568; M. Noonan, Germantown, Pa., $44,352; Reeves Smith, New Britain, Pa., $44,515; John F. Kerwin & Co., $43,889; Hassan Paving Co., Worcester, Mass., four bids, $40,261, $37,-734, $43,209 and $38,366; MacMenamin & Hillpot, Bound Brook, N. J., $40,791. An irregular bid was also received from T. J. McGovern, of Trenton, N. J., at $36,743. Itemized bids are given this week under Contract Prices. Andrew J. Gavett is City Surv.

NEW BRUNSWICK, N. J.—ABRAHAM JELIN has secured the contract for laying about 4,100 sq. yds. Mack block pavement on French St., at $2.65 per sq. yd; also for constructing 10-in. terra cotta sewer on Wyckoff St., at 80 cts. per lin. ft. Frederick C. Schneider is City Surv.

WILKES-BARRE, PA.—The Council has let contract for paving Espy St. with Porter brick to JAMES BADMAN, for $5,930. Alfred Hand is City Engr.

SHARON, PA.—The contract for paving 2,800 sq. yds. with asphalt block on Ormond Ave. has been awarded to WM. McINTYRE & SONS, at $2.13 per sq. yd.

SNOW HILL, MD.—Bids are asked by the County Commissioners until Sept. 3 for grading and macadamizing two miles of road.

WILMINGTON, DEL.—Bids are asked by Francis A. Price, New Castle County State Highway Comr., until Sept. 3, for constructing macadam road.

The Levy Court has awarded contract for constructing road in Blackbird Hundred, 4.82 miles in length, to THEO. F. HARSCH, for $37,750.

*WASHINGTON, D. C.—Bids are asked by the District Commissioners until noon, Sept. 3, for grading Albermarle St. Amount available, $8,500.

*FT. MOULTRIE (Moultrieville post-office), S. C.—Bids are asked by J. M. Fulton, Q. M., until 11 a. m., Sept. 14, for constructing roads and walks.

LAKE CHARLES, LA.—Bids are asked until Sept. 3 for construction of about 15 miles of cement sidewalks, and brick or cement curb.

JACKSBORO, TENN.—Bids are asked by the Board of County Road Commissioners, R. B. Bard, Chn., until Sept. 3 for road construction.

*CANTON, OHIO.—Bids are asked by the Board of Public Service, B. F. Faust, Clk., until noon, Sept. 3, for paving, etc., upon gravel and concrete foundations. Estimated cost, $82,425. W. E. Sarver is City Engr.

WOODSFIELD, OHIO.—Bids are asked until Aug. 30 by Geo. P. Door, Village Clk., for grading, draining and macadamizing portion of West Court St.

CINCINNATI, OHIO.—Bids are asked by the Board of Public Service, M. J. Keefe, Clk., until noon, Aug. 29, for grading, paving, etc., portions of Beekman St. Estimated cost, $24,354. C. N. Dannenhower is City Engr.

Bids are asked by the Board of Public Service until noon, Sept. 12, for grading, paving, etc., portions of Palm Ave. Estimated cost, $6,316.

Bids are asked by the Board of Public Service until noon, Sept. 11, for grading, paving, etc., portions of Kirby Ave., Ninth, Clinton, Townsend and Tremont Sts. Estimated costs, $40,546, $28,129, $27,376, $5,-691 and $20,073, respectively.

*CARROLLTON, OHIO.—Bids are asked by W. A. Taylor, Springfield Township Clk., until 3 p. m., Sept. 5, for grading and macadamizing five miles of road in Springfield Township. R. H. Lee, Carrollton, is Engr.

MUNCIE, IND.—Bids will soon be asked by the County Commissioners for construction Grimnup gravel road in Washington Township. Jos. E. Davis is County Audr.

LEBANON, IND.—Bids are asked by the County Commissioners until Sept. 24 for construction of the Ezra Good Gravel Road. B. F. Simmons is County Audr.

TERRE HAUTE, IND.—Bids are asked until Aug. 24 by County Commissioners for construction of 7,941 ft. of stone road, known as Road No. 9. Geo. R. Grimes, of Terre Haute, is Engr.

COVINGTON, IND.—Bids are asked by the County Commissioners until 1.30 p. m., Sept. 3, for constructing four stone pikes aggregating 9½ miles in length and two gravel roads about five miles in length. W. B. La Baw, Veedersburg, is County Surv.

ROCKVILLE, IND.—Bids are asked by the County Commissioners of Parke & Fountain Counties, at Rockville, until noon, Sept. 20, for constructing stone pike 1½ miles in length. W. B. La Baw, Veedersburg, is Surv. of Fountain County.

MONTICELLO, IND.—Bids are asked until Sept. 3 by J. L. Ackerman, County Audr., for grading, draining and paving various roads with stone.

MARTINSVILLE, IND.—The contract for constructing 2½ miles of gravel and macadam road in Roy Township has been awarded to M. R. O. CAMPBELL, of Frankfort, Ind., for $12,107. B. E. Thornburgh is County Audr.

VALPARAISO, IND.—Bids are asked by Robt. B. Ewing, City Clk., until Aug. 23 for paving various streets with vitrified paving block on macadam foundation, laying combined cement curb and gutter, etc.

BLOOMINGTON, IND.—Bids are asked by the County Commissioners until 2 p. m., Sept 4, for construction of pike roads Nos. 1, 2, 3 and 4, in Salt Creek Township, aggregating in length, 12,200 ft. Samuel M. Kerr is County Audr.

DECATUR, IND.—Bids are asked by the County Commissioners until Sept. 6, for construction of macadamized road in Monroe Township, and gravel road in Preble Township. C. D. Lewlon is County Audr.

BUSHNELL, ILL.—We are officially informed that the Board of Local Improvements Aug. 12 awarded contract for paving Crofford and Hurst Sts. with vitrified brick and laying stone curb to P. H. TIERNAN, of Macomb, Ill., for $19,623. The work includes 4,048 cu. yds. excavation, 6,128 lin. ft. curb and 9,497 sq. yds. paving. The only other bid received was submitted by J. B. McCauley, of Galesburg, Ill., at $19,869. W. H. Dawson is City Clk.

OSHKOSH, WIS.—Bids are asked by the Board of Public Works, W. A. Marden, Chn., until Aug. 24 for constructing tar macadam roadways on various streets. George H. Randall is City Engr.

FOND DU LAC, WIS.—Bids are asked by the Board of Public Works, L. A. Pettibone, Chn., until Sept. 2 for paving portion of East 1st St. with brick and paving various streets with asphalt and constructing combined curb and gutters.

NEENAH, WIS.—The GREEN BAY CONCRETE CO. has secured the contract for paving with brick portion of North Commercial St., at $15,969.

MADISON, WIS.—Bids are asked by O. S. Norsman, City Clk., until Sept. 13 for macadamizing portion of Jefferson St. J. F. Icke is City Engr.

BILLINGS, MONT.—Plans are being prepared for paving to be let in two contracts; one to cost $103,000, and the other $20,000. Henry Gerharz is City Engr.

NORTH YAKIMA, WASH.—The City Council Aug. 6 awarded contracts as follows: JAS. McKIRN, of North Yakima, paving with brick portion of Yakima Ave., at $71,153, and the BARBER ASPHALT PAVING CO., of Spokane, portion of the same street with asphalt, at $55,669.

STOCKTON, CAL.—The contract for laying 1,066,000 sq. ft. asphalt pavement has been awarded to CLARK & HENERY CONSTRUCTION CO., of Stockton, for $135,432. George Sievers is City Engr.

CHATHAM, ONT.—The WARREN BITUMINOUS PAVING CO., of Toronto, Ont., has secured contract for laying 7,900 sq. yds. of bitulithic pavement.

BRANTFORD, ONT.—The City Council has let contract for laying about 50,000 sq. ft. of sidewalks, with curbing, to the SILICA BARYTIC STONE CO., of Ingersoll, at 11½ cts. per sq. ft.

MANUFACTURING PLANTS.

(denotes that this work is advertised in Engineering News.)*

CLINTON, MASS.—The Bigelow Carpet Co. has let contract to J. W. BISHOP & CO., of Worcester, Mass., for erecting mill on Union St., for about $300,000.

PROVIDENCE, R. I.—Plans have been prepared for brick and concrete car barn for the Rhode Island Co., to be erected at Mt. Pleasant. The barn will be 142 × 280 ft. F. N. Bushnell, 170 Westminster St., Providence, is Ch. Engr. Estimated cost, $80,000.

STAMFORD, CONN.—The Engineering Specialty Co., of Meriden, may construct 2-story factory, 40 × 150 ft., at Stamford.

MIDDLETOWN, CONN.—The plant of Wilcox, Crittenden & Co., manufacturers of marine hardware, recently destroyed by fire, will, it is reported, be rebuilt.

JAMAICA, L. I., N. Y.—H. J. Campbell, Consult. Engr., 200 Broadway, has let general contract to the WM. L. CROW CONSTRUCTION CO., 289 Fourth Ave., for erecting 1-story brick ice plant, for the Jamaica Consumers' Ice Co., 339 Fulton St., Jamaica, L. I. Cost, $200,000.

ROCHESTER, N. Y.—Plans have been prepared for the Bausch & Lomb Optical Co. for erecting 5-story addition to their factory in St. Paul St. The addition will be 236 × 124 ft. The company is also making preparations to add two stories to present factory. Cost, $150,000.

OLEAN, N. Y.—The Feder Silk Throwing Co. will, it is reported, erect 1-story, 90 × 150-ft. mill at Olean. Cost, including equipment, $45,000.

WEST ALBANY, N. Y.—The New York Central & Hudson River R. R. Co. has awarded to R. RICHARD & SON, of Utica, N. Y., the contract for constructing erecting shop at West Albany yards. L. F. SHOEMAKER & CO., of New York, have been awarded contract for the steel frame work. R. T. Horton, at Albany, is Resident Engr.

NEW CASTLE, DEL.—Plans are being prepared for the Deemer Steel Casting Co., recently incorporated with capital stock of $250,000, by Selden S. Deemer and Edw. T. Price, for construction here of plant for manufacture of steel castings.

MEMPHIS, TENN.—Webb & Murray will, it is reported, rebuild warehouse recently destroyed by fire.

BARBERTON, OHIO.—Plans are being prepared by Chas. Henry & Sons, of Akron, for 4-story addition, 125 ft. long, with wing 60 × 100 ft., office building, to be erected at the Diamond Match Co.'s plant at Barberton.

VINCENNES, IND.—The MODERN CONSTRUCTION CO., of Terre Haute, has been awarded contract for rebuilding the old Vincennes distillery plant, destroyed by fire, for about $25,000.

BLOOMFIELD, IND.—Bids will soon be asked by the Bloomfield Vitrified Brick & Tile Co. for construction and equipment of manufacturing plant. T. H. Schmutz, Chanute, Kan., and C. C. Stein and Lloyd Begeman, of Westphalia, Ind., are directors.

EVANSVILLE, IND.—GEO. GEORGE & SONS, 1308 Walnut St., Evansville, have secured contract for erection of planing mill annex for the Hercules Buggy plant. Harris & Shoppell, 123 North Fourth St., are Archs.

MONTGOMERY, ILL.—The Lyon Metallic Co. contemplates erecting an addition to its present plant.

MILWAUKEE, WIS.—F. Westfahl & Co. will probably rebuild the file works, at Cherry and 31st Sts., recently burned.

MUSCATINE, IOWA.—The Muscatine Pearl Button Co. will enlarge its plant. S. C. Clark is Mgr.

KENT, WASH.—The Pacific Coast Condensing Milk Co. contemplates constructing reinforced concrete can manufacturing plant, 150 × 205 ft. Location not yet decided upon. The company now has factories in Kent, Mt. Vernon and Chehalis, Wash., and in Hillsboro and Forest Grove, Ore.

SEATTLE, WASH.—The Northwest Electric Co. will erect plant for manufacture of all kinds of electrical appliances. The company will absorb the Seattle Electric Heating & Mfg. Co. A. E. Ransom is Supt.

RAYMOND, WASH.—According to press reports, "contracts have been drawn up and signed by the Clerin-Hamilton Lumber Co., of Raymond, and the Coates & Larkin Co., of Grays Harbor, and the Raynood Land & Improvement Co., by which the two first-named companies will build mills on sites to be donated by the land company. The shingle mill to be built by the Clerin-Hamilton Co. will be south at the company's sawmill, and will be a shingle mill with capacity of 250,000 per day. Coates & Larkin have site near the Case Shingle Mill, and will build shingle mill with daily capacity of 150,000. Work will be started at once."

SAN DIEGO, CAL.—Plans have been prepared for flour mill to be erected by the Globe Milling Co. Estimated cost, $175,000.

OTTAWA, ONT.—The W. C. Edwards Company's plant, recently destroyed by fire, will be rebuilt. Estimated cost, $300,000.

WINNIPEG, MAN.—The Canadian Northern Ry. Co. has let contract for construction of erecting shop, 160 × 600 ft., with annexes, to KELLY BROS. & MITCHELL. Cost, $200,000.

PHOENIX, B. C.—Plans have been prepared for the Dominion Copper Co. for constructing 2-stand converting plant to be installed at the company's smelter. W. C. Thomas is Mgr.

MISCELLANEOUS CONTRACTS.

(denotes that this work is advertised in Engineering News.)*

U. S. RECLAMATION SERVICE—All news relative to canal projects, etc., will be found under Water Supply—Irrigation.

JETTY.—Wilmington, Del.—Bids are asked by Maj. C. A. F. Flagler, Corps Engrs., U. S. A., until Aug. 28, for jetty construction at new mouth Broadkill River.

DREDGING.—Seattle, Wash.—Bids are asked until noon, Sept. 5, by Maj. H. M. Chittenden, Corps Engrs., U. S. A., for dredging Swinomish Slough, Wash.

*DREDGING, FILLING IN.—Moultrieville, S. C.—Bids are asked by J. M. Fulton, Q. M., Fort Moultrie, until 11 a. m., Sept. 14, for dredging and filling in at this post.

DREDGING PLANT.—Detroit, Mich.—Bids are asked until Aug. 26 by Col. Chas. E. L. B. Davis, Corps Engrs., U. S. A., Jones Bldg., for hire of dredging plant for use in Detroit River.

BULKHEAD.—Stockton, Cal. — Bids are asked until Sept. 16 by R. C. Tumelty, City Engr., for building concrete bulkhead on north side of Stockton channel. Cost, estimated at $10,000.

WHARF EXTENSION.—Chicoutimi, Que.—Bids are asked by Fred. Gelinas, Secy. Dept. Public Works, Ottawa, until Aug. 26, for the construction of an extension to the wharf at Chicoutimi.

GREENHOUSE.—Troy, N. Y. — Bids are asked until Aug. 23, by the Board of Contract and Supply for furnishing material and erecting a greenhouse at Prespect Park. James M. Riley, Clerk.

*EMPLACEMENTS.—West Point, N. Y.—Bids are asked until noon, Sept. 9, for the construction of two emplacements for 6-in. guns, mounted on disappearing carriages. Address Quartermaster, West Point.

LEVEE.—Bradley, Ark.—Bids are asked until Sept. 11 by W. H. Baker, Secy. Long Prairie Levee Board, for the construction and raising of levee from Buncom Springs to Louisiana and Arkansas line; about 450,000 yds.

ORE MILL BURNED.—Colorado City, Colo.—The cyanide ore mill at this place, owned by the Golden Cycle Mining & Milling Co., of Cripple Creek, was burned on Aug. 7. The loss is $750,000, with about $300,000 insurance.

*WALLS, DREDGING.—Gardiner, Me.—Bids are asked by Maj. Geo. A. Zinn, Corps Engrs., U. S. A., Portland, Me., until noon, Sept. 19, for building training walls and dredging in Kennebec River, below Gardiner.

SAND, BROKEN STONE.—New York, N. Y.—Bids are asked until noon, Aug. 27, by J. A. Bensel, Comr. Docks. Contract No. 1102: For furnishing all the labor and materials required for furnishing and delivering sand and broken stone.

MACHINE TOOLS.—New York, N. Y.—Bids are asked until noon, Aug. 27, by J. A. Bensel, Comr. of Docks, for Contract No. 1070: For furnishing all the labor and materials required for furnishing and delivering miscellaneous machine tools.

FENCE.—New York, N. Y.—Bids are asked until 3 p. m., Aug. 29, by the Department of Parks, for furnishing all the labor and materials necessary to erect and complete a 3-rail post and pipe wire mesh fence in McLaughlin Park, Boro. Brooklyn.

DITCH.—Sullivan, Ind.—Bids were received on Aug. 5 for constructing a dredge boat ditch, about 80,000 cu. yds. W. H. Jones, Jr., New Lebanon, Ind., is Engr. and Supt. Contract was awarded to ASBURY H. MANUEL, of Merom, Ind., at $20,000.

PIER, DOCK, ETC.—Elizabeth, N. J.—W. H. Luster, Jr., City Engr., states that bids were received on Aug. 1 by John Kenah, City Clk., for constructing pier, dock and cribs. Lowest bidders were Rhodes & Marvel, 210 Broad St., Elizabeth, at $28,000.

DREDGING.—Grand Forks, N. Dak.—The STANDARD DRAINAGE CO., of Windom, Minn., has been awarded contracts by the State Drainage Board for deepening of the Grand Marais and for construction of the Otter Tail River cut-off in Wilkin County.

SUPPLIES.—New York, N. Y.—Bids are asked until 2 p. m., Aug. 29, by the Department of Bridges, for furnishing and delivering steel and hardware supplies to the Harlem River bridges during the year 1907. John H. Little, Deputy and Act. Comr. of Bridges.

GRAND-STANDS.—New York, N. Y.—The Board of Education on Aug. 12 awarded contract for erecting grand-stands in athletic fields to JAS. MACARTHUR, 22 Ormond Place, Brooklyn, at $23,800 for one in Queens Boro., and $33,700 for one in Richmond Boro.

*LIGHT-HOUSE SUPERSTRUCTURE. — Philadelphia, Pa. — Bids are asked until 11 a. m., Sept. 10, by Maj. C. A. F. Flagler, Corps Engrs., U. S. A., for erecting superstructure of the light-house at the Harbor of Refuge Light-Station, Delaware Bay, Del.

OVERHAULING STEAMER.—New York, N. Y.—Bids are asked by Robt. W. Hébberd, Comr. Public Charities, until 2.30 p. m., Aug. 26, for furnishing all the labor and materials necessary for the general overhauling and painting of the steamer "Thomas S. Brennan."

RIVER PROTECTION.—Santa Ana, Cal.—An election will be held on Aug. 24 to vote upon the proposed issue of $185,000 of bonds for the protection of the lands of the Newbert Protection District from overflow by the Santa Ana River. J. A. Timmons, Secy. Newbert Protection Dist.

BREAKWATER.—Key West, Fla.—One bid was received as follows, on Aug. 14, at the office of the Supervising Architect of the Treasury, Washington, D. C., for the construction of a breakwater at the Marine Hospital, Key West, Fla.: Ferguson & Ward, Key West, Fla., $7,292.

DOCK.—Two Harbors, Minn.—The contract for the steel ore dock to be known as No. 6, has been awarded to BARNETT & RECORD, of Duluth, Minn., and Superior, Wis. It will be 1,008 ft. long and 73 ft. high. The deck on top will be 57 ft. wide and will accommodate four railroad tracks.

FILLING IN.—Portsmouth, N. H.—The Bureau of Yards and Docks, Navy Dept., Washington, D. C., has awarded to the BOSTON & NEW YORK CONTRACTING CO., 220 Devonshire St., Boston, Mass., contract for the filling in back of quay wall, Portsmouth Navy Yard, N. H., at $37,488.

IRON ORE DEPOSITS.—Albany, N. Y.—The Legislature has made an appropriation of $5,000 "for determining what deposits of iron ore exist within the State and the extent and availability thereof." The investigation will be conducted under the charge of Dr. Andrew S. Draper, Comr. of Education, Capitol, Albany.

DREDGING. — Cheboygan, Mich. — Bids were received as follows on Aug. 15 by Col. Chas. E. L. B. Davis, Corps Engrs., U. S. A., Detroit, for dredging about 33,000 cu. yds. in Cheboygan Harbor (price per cu. yd): H. W. Hubbell & Co., Saginaw, Mich., 57 cts.; Great Lakes Dredge & Dock Co., Chicago, Ill., 42 cts.

DREDGING.—Tacoma, Wash.—Bids are asked until Sept. 2, by Maj. H. M. Chittenden, Corps Engrs., U. S. A., Seattle, for dredging the Puyallup waterway and bulkheading and filling. The appropriation for dredging the waterway is $240,000 and the bulkheading and filling will be paid for by the owners of property.

PIER STRUCTURES.—New York, N. Y.—Bids are asked by J. A. Bensel, Comr. of Docks, until noon, Aug. 29, for Contract No. 1077: For furnishing all the labor and materials required for preparing for and building structures with the necessary appurtenances on the pier at the foot of Canal St., Stapleton, Boro. of Richmond.

DRAINAGE TUNNEL.—Colorado Springs, Col.—New bids for a drainage tunnel will be received by the Cripple Creek Drainage & Tunnel Co. Two sets of specifications will be prepared; one set will provide for completion of new drainage tunnel at its present dimensions, 7 × 10 ft.; the other set will provide for a smaller bore, 5 × 8 ft. Previously noted.

RETAINING WALL, ETC.—Ilion, N. Y.—The Legislature has made an appropriation of $7,000 for cleaning out Steel Creek in the village of Ilion, Herkimer County, and constructing retaining wall for same between the Armory dam and the State dam to prevent overflow from the creek. The work will be under charge of F. C. Stevens, Supt. Public Works, Albany, N. Y.

SUPPLIES.—Washington, D. C.—Bids are asked by the Bureau of Supplies and Accounts, Navy Dept., until Sept. 3, 10 and 17, for various supplies, including building material, construction work, electrical supplies, hardware, metals, machine tools, lumber, pipe fittings, etc. List of schedules, with quantities of each supply, is on file at office of Engineering News, New York.

RIPRAP.—New York, N. Y.—Bids were received as follows by J. A. Bensel, Comr. of Docks, on Aug. 19, for Contract No. 1101: For furnishing all the labor and materials required for furnishing and putting in place riprap stone: (a) Class 1; (b) class 2: John M. Sheehan, 280 Broadway, (a) $19,672, (b) $2,962. The Atlanta Contracting Co., 434 East 91st St., (a) $17,139, (b) $2,900. pff

*WRECK REMOVAL.—Boston, Mass.—Maj. Edward Burr, Corps Engrs., U. S. A., announces that "whereas navigation is obstructed and endangered by wreck of the schooner 'Julia A. Decker,' lying off Salisbury Beach at entrance to Newburyport Harbor, Mass., notice is given that unless otherwise removed within 30 days it will be removed by the U. S. under authority of law. Bids are asked until noon, Sept. 19, for its removal."

SEAWALL.—New Orleans, La.—Bids are asked until Aug. 30, by Capt. James F. McIndoe, Corps Engrs., U. S. A., New Orleans, for constructing interlocking steel pile seawall at Fort St. Philip. The only bid received by Col. E. H. Ruffner, Corps Engrs., U. S. A., New Orleans, on July 15 for constructing seawall at Fort St. Philip was submitted by Christie & Lowe, 107 Camp St., New Orleans, at $105,100.

*LOCK, ETC.—Brownsville, Pa.—Bids were received as follows on Aug. 12 by Maj. H. C. Newcomer, Corps Engrs., U. S. A., Pittsburg, for building a lock with two chambers, two guide walls and two guard walls, at Brownsville, on the Monongahela River: The Dravo Contracting Co., Pittsburg, $465,600; the T. A. Gillespie Co., Pittsburg, $431,420; H. E. Talbot & Co., Dayton, Ohio, $393,800. Itemized prices are given under Contract Prices in this issue.

PIER.—New York, N. Y.—Bids were received by J. A. Bensel, Comr. of Docks, as follows, on Aug. 15 for Contract No. 1087, for furnishing all the labor and materials required for preparing for, repairing and rebuilding a portion of the pier at the foot of West 132d St., North River, known as Pier No. 122: B. Rolf, 39 Cortlandt St., $9,433; N. Y. State Const. Co., 80 Broad St., $9,335; Butler Bros. & Hoff Co., 1170 Broadway, $9,800; Phoenix Const. Co., 41 Park Row, $9,179.

CONCRETE WALL, ETC.—Napanoch, N. Y.—The following work at the Eastern New York Reformatory, at Napanoch, has been authorized by the Legislature, and will be progressed during the present year, the sums given below being the amounts available for the various pieces of work: For concrete wall, $35,000; for power plant, $37,000; for water supply, complete, $10,000; for equipping trade schools, $10,000. Joseph F. Scott, Gen. Supt., Elmira, N. Y.

RIVER IMPROVEMENT.—Troy, N. Y.—The NEWBURGH DREDGING CO. has been awarded the contract for deepening and widening the channel of the Hudson River between Coxsackie and Troy. Operations must be begun within 30 days. The contract for supplying about 4,000 cu. ft. of stone for filling in the new dyke at Upper Rensselaer will shortly be awarded by the Government. R. H. Talcott, U. S. Asst. Engr., at Albany, has charge of the work.

AMUSEMENT PARK.—Philadelphia, Pa.—Plans are under way for the development of Petty's Island in the Delaware River into an amusement park. The Island City Co. has been formed to make the transformation; $2,500,000 will be spent in the process. The Island City Co. is being financed by Blackstaff & Co., of 1332 Walnut St., Philadelphia, of which W. H. Donovan is Pres. It is incorporated under the laws of the State of Delaware, and its authorized capital stock is $5,000,000. The island is in the State of New Jersey.

WHARF.—San Diego, Cal.—Bids were received as follows at the office of the Chief of the Bureau of Equipment, Navy Dept., Washington, D. C., for the construction of a wharf and trestle and coal bunkers at San Diego, Cal.: Snare & Triest, New York, $269,260; Pacific Construction Co., San Francisco, Cal., $244,980; San Francisco Bridge Co., San Francisco, Cal., (A) $177,170, (B) $281,943; Penn Bridge Co., Beaver Falls, Pa., (1) $239,400, (2) $217,000, (3) $201,000, (4) $205,000.

WHARF IMPROVEMENTS.—Mobile, Ala.—The Mobile "Register" states that "at a cost of $100,000, the Mobile & Ohio R. R. Co. will make improvements on the wharf front to the north of the city's property at the foot of St. Anthony St. The wharf extension will cover a distance of 1,000 feet, and the work will be commenced at once. The project embraces the dredging of the entire wharf front to a depth of 23 ft." C. F. Blue is Supt. Way and Structures, at Mobile.

DRAINAGE.—Sioux Falls, S. Dak.—Considerable activity in engineering matters is now being manifested in the valley of the Big Sioux River in South Dakota. A survey to determine the best method of drainage for that portion of the Sioux River valley, immediately above Sioux Falls, is being made under the supervision of the State Engineer's office. During high water periods this valley is subject to severe floods, which cause much damage to crops over a large area.

VESSEL.—Washington, D. C.—Bids were received as follows, Aug. 1[illegible] at the office of the Light-House Board, Dept. of Commerce and Labor, Washington, D. C., for the construction of a single screw steel light house vessel, No. 82, to be delivered (a) at Charlevoix, Mich., (b) at Detroit, Mich., or (c) Tompkinsville, N. Y.: [illegible] Engine & Power Co., Morris Heights, New York City, (a) $37,710; (b) $37,210; (c) $[illegible]710. Racine Boat Mfg. Co., Muskegon, Mich., on bidders' specifications (a) $25,700; (b) $25,900.

DRYDOCK.—Cleveland, Ohio.—The American Shipbuilding Co. will build a 700-foot drydock in the Globe yards. Work will not be started until next year because of the recent strike. This drydock will be the largest in Cleveland by 150 feet, and its cost is estimated at $500,000. Eight months will be required for its construction. Besides the dock, traveling cranes to carry steel plates weighing as much as 18 tons will be installed, along with other machinery aggregating $300,000 in cost. O. N. Steele is Mgr. of the local yards.

PROTECTION WALL.—Skaneateles, N. Y.—Bids are asked by F. C. Stevens, Supt. of Public Works, Capitol, Albany, N. Y., until noon, Aug. 28, for the work of constructing a protection wall on the west side of Skaneateles Lake outlet in the village of Skaneateles, Onondaga County, N. Y. The specifications include bailing and draining; 1,050 cu. yds. excavation and backfilling; 1,000 lin. ft. bearing piles, delivered; 925 lin. ft. bearing piles, driven; 160 cu. yds. gravel lining; 3,570 sq. ft. expanded metal; 890 cu. yds. second-class concrete. The work must be completed by Dec. 15, 1907.

TUNNEL.—Mauch Chunk, Pa.—The Lehigh Coal & Navigation Co. has awarded the contract to the PORTLAND CONSTRUCTING CO. of Pottsville, Pa., for the construction of a mine tunnel between Mauch Chunk and Nesquehoning by which it will drain every one of its 13 collieries in the Panther Creek Valley. The tunnel will be 7,200 feet in length and will be started at once. It will make it possible to mine thousands of tons of coal which are now unapproachable. Two years will be occupied in the construction of the passage.

BREAKWATER.—Oswego, N. Y. — Bids were received by Col. H. M. Adams, Corps Engrs., U. S. A., Buffalo, on Aug. 17 for constructing stone-concrete superstructure on outer breakwater at Oswego. The Barnett Construction Co., of Oswego, bid $461,527, and Patrick Keohane, of Fayetteville, N. Y., $398,412, for constructing a stone and concrete breakwater over the present timber structure. As the appropriation made by Congress for the work is $200,000 it is likely that both bids will be rejected. The high bids are due, it is stated, to the present state of the stone market. On July 6 bids were opened for the same work and one bid was received at that tim, which was from the Barnett Construction Co., at $296,000.

TUNNEL REPAIRS.—Syracuse, N. Y.—The railroad tunnel through which the New York Central & Hudson River R. R. passes under the Erie canal, just east of Syracuse, has been found to be in a weakened condition, although the collapse of the structure is not feared. In order to make certain its temporary safety, George W. Kittredge, Ch. Engr. of the New York Central, has devised plans for strengthening the tunnel and the repair work will be commenced at once. It is the intention of the railroad company either to construct an entirely new tunnel, possibly of steel construction, or to so strengthen the old tunnel that its safety will be beyond question. The permanent work on the structure can not be begun until after the close of canal navigation in November, but plans will be prepared at once by the company.

U. S. POSSESSIONS AND CUBA.

ENGINEERING SUPPLIES. — Panama. — Bids are asked, under Circular 386, until 10.30 a. m., Sept. 3, at the office of David W. Ross, Gen. Purchasing Officer, Isthmian Canal Commission, Washington, D. C., for the following engineering supplies for the Isthmus:

Two locomotive coaling cranes, ten-ton capacity, mounted on iron car-body with swivel trucks; lifting capacity, 10 to 14 tons at a 15-ft. free radius; two 20-ton capacity cranes on same specifications.

Two hoisting engines; cylinders, diameter, 8½ ins.; stroke, 12 ins.; drum, diameter, 16 ins.; length, 29 ins.; capacity, 40 HP.; with single rope at average speed, five tons; weight, 20,500 lbs.

Four hoisting engines; cylinders, diameter, 7 ins.; stroke, 10 ins.; drums, diameter, 14 ins.; length, 26 ins.; capacity, 20 HP., with single rope at average speed, 5,000 lbs.; weight, 9,500 lbs.

One vertical, 120-HP., boiler (Manning patent). One tandem steam roller, 8-ton; 2,000 ft. blow-steel wire cable; 75 steel axles; two 30-ton hydraulic jacks; frogs, switch points, switch stands, switch slide plates; 1,200 ft. culvert pipe, 24-in. and 30-in.

One tugboat, length, water line, 100 ft.; width, 25½ ft.; draft, 9 ft.; steel hull; equipped with all appliances; Scotch marine boilers, 150 HP., triple expansion, condensing engines, 500 I. HP.; equipped with electric light plant, searchlight, etc., to be new or of recent construction.

20,000 bbls. Portland cement.

Lumber as follows: 200,000 ft. flooring; 200,000 ft. ceiling; 200,000 ft. ship lap siding; 300,000 ft. lumber, S. 1 S.; 1,2[illegible]0,000 ft. rough lumber; 1,000,000 ft. flooring, S. 2 S.; 1,0[illegible]0,000 ft. ship lap siding, S. 2 S.; 1,000,000 ft. ceiling, S. 2 S.; 600,000 ft. lumber, S. 2 S.; 2,400,000 ft. lumber, S. 4 S.; 700,000 ft. lumber, S. 1 S. 1 E.; 60,000 ft. rough lumber; 15,500 pieces rough lumber; all above lumber to be of various specified sizes, long-leaf yellow pine, redwood or Douglas fir; 1,000 pieces rough oak, various sizes; 4,000 ft. rough bas-

wood: 20,000 ft. rough clear white pine; 5,000 ft. soft white pine pattern lumber; 10,000 ft. dressed fir; 30,000 ft. long-leaf yellow pine decking; 2,000 ft. ash.

LOCOMOTIVES.—Panama.—Bids are asked until 10.30 a. m., Aug. 30, at the Office of David W. Ross, Gen. Purchasing Officer, Isthmian Canal Commission, Washington, D. C., for furnishing at either Colon or La Boca, 12 locomotives, four-wheeled, saddle-tank, for construction service. They are to have a gage of 3 ft. and are to burn bituminous coal. Cylinders: diameter, 10 ins.; stroke, 16 ins. Driving wheels; diameter, 30 ins. to 33 ins. Weight on drivers, 34,000 to 36,000 lbs. Driving wheel base, about 5 ft. Hauling capacity on level, 1,000 tons.

LUMBER.—Panama.—Bids were opened as follows on Aug. 8, at the office of David W. Ross, Gen. Purchasing Officer, Isthmian Canal Commission, Washington, D. C., for a large quantity of lumber: (A1) 100,000 cross ties, 7 × 9 ins. × 9 ft.; (A2) same, 7 × 9 ins. × 8 ft.; (B) 5,710 untreated piles, from 20 to 80 ft. long; (C) 32,900 bridge caps, bracing, various sizes. Deliveries are Colon, unless otherwise specified:

American Tie & Timber Co., 11 Broadway, New York: (A1) $107,800, 175 days; (A2) $98,400, 175 days; on 35,000 only; (A1) $37,030; (A2) $33,880, 45 days. A. S. Bacon & Sons, 2 Bay St., West, Savannah, Ga., (B) $71,830, 150 days; (C) $67,147, 120 days; delivery Satilla River, Ga.; (B) $32,650; delivery Savannah, Ga.; (C) $50,654. G. S. Baxter, 17 William St., New York, (A1) $96,400; (A2) $91,700; delivery Georgia and Florida ports; (A1) $67,500; (A2) $64,500. H. B. Blake, 314 North Eleventh St., Tacoma, Wash., delivery, Tacoma, (B) $40,812.50, 150 days. Continental Lumber Co., Houston, Tex., delivery, Gulf ports, (C) $60,198, 120 days. Wm. P. Cook & Co., 100 Wall St., New York, (A2) $98,250, 240 days. Coombs Co., Appalachicola, Fla., Gulf delivery, (C) $65,247, 240 days. G. Cusacks, New Orleans, Gulf delivery, (B) $24,610, 90 days. Dixon Lumber Co., Savannah, Ga., (C) $68,791, 150 days.

Eastern & Western Lumber Co., Portland, Ore., Portland delivery, (C) part, $15 and $17 per thousand feet, 60 days. G. Elias & Bros., Buffalo, N. Y., delivery, Atlantic and Gulf ports, (A1) $110,000; (A2) $95,000, 180 days; (B) $53,492; (C) $62,999, 180 days. L. M. Gex, Bay St. Louis, Miss., Gulf ports delivery, (B) $34,491, 90 days. Wm. D. Gill & Sons, 701 President St., Baltimore, (C) $66,794; on prime yellow pine, $78,102, 150 days. D. L. Gillespie & Co., 541 Wood St., Pittsburg, (C) La Boca delivery, $63,260; Puget Sound delivery, $36,519, 90 days. James Mfg. Co., Tifton, Ga., Brunswick, Ga., delivery, (C) $53,010, 90 days. J. K. Joice, 164 Dearborn St., Chicago, Gulf delivery, (B) $44,077, 120 days; (C) $52,479, 90 days; Colon delivery, (B) $77,544, 120 days; (C) $71,340, 95 days; Puget Sound delivery, (C) $37,485, 60 days, Douglas fir. S. E. Naylor & Co., Gulfport, Miss., (B) $59,287, 150 days; (C) $66,610, 120 days.

Orange Lumber Co., Houston, Tex., Gulf delivery, (C) part $31,995, 60 days. Pacific Creosoting Co., Seattle, Wash., Puget Sound delivery, (B) from 6½ to 10 cts. per lin. ft. C. W. Robinson Lumber Co., New Orleans, (C) $67,995; $63,283, if entire class awarded; $70,351, 90 days. Salmen Brick & Lumber Co., 716 Common St., New Orleans, (A1) $119,500, 180 days; (B) $64,484, 90 days. Shipman & Costello, Mobile, Ala., (A1) $98,000; 124 days; (B) $94,685, 89 days; (C) $69,503, 99 days. Robt. R. Sizer & Co., Jacksonville, Fla., (B) $71,236, 175 days; (C) $76,572, 120 days. Southern Sawmill Co., Hennen Bldg., New Orleans, (A1) $114,500, 180 days; (B) $64,647; (C) $65,969, 90 days. Stauffer, Eshleman & Co., New Orleans, (C) New Orleans delivery, $59,276, 120 days. John N. C. Stockton, Jacksonville, Fla., delivery same, (B) $14,949, 90 days. Tacoma Mill Co., Tacoma, Wash., delivery same, (C) $40,380, 112 days. Broughton & Wiggins Lumber Co., Portland, Ore, delivery same, (B) $37,270, 120 days; (C) $44,729, 120 days. B. F. Williamson, Gainesville, Fla., Jacksonville delivery, (A1) $80,000; (A2) $79,000, 300 days. Kirby Lumber Co., Houston, Tex., (C) $80,930, 90 days. L. J. Merriman, Wilmington, N. C., (A1) $95,500, 165 days; (A2) $89,333; (B) $68,458, $66,500, $70,000; (C) part, $21,010; total of whole bid, $183,000; United States ports deliveries, (A1) $67,750; (A2) $61,250; (B) $35,500, $34,000, $37,000; (C) part, $15,000; total of bid, $117,000. Chicago Lumber & Coal Co., St. Louis, (B) Gulf ports, $42,522; (C) Colon, $75,177, 112 days.

FOREIGN CONTRACTS.

(To insure prompt attention, letters upon consular business should be addressed to the American Consul at ———, ———. Such letters are opened and attended to by the person that may be in charge of the office. If addressed to the consul, personally, letters are forwarded to him, unopened, should he be absent, and a delay thus intervenes. If, in the meantime, he should have gone out of office the matter may wholly escape attention.)

BATTLESHIPS.—Russia.—An appropriation of approximately $64,000,000 has been passed by the Russian Government for the construction and armament of ships during the years 1908-1911. Inquiries for contracts should be addressed to the Minister of Navy, St. Petersburg, Russia.

IRON CONSTRUCTION MATERIAL.—Brazil.—Bids are asked until Dec. 16 by the Brazilian Government for iron construction material for new workshops of the Central Brazilian Railways. Address for particulars, Direcção da Estrada de Ferro Central do Brazil, Rio de Janeiro, Brazil.

PINE SLEEPERS.—Egypt.—Bids are asked until noon, Nov. 1, by the Administration of the Egyptian State Railways for the supply of 200,000 pine sleepers in accordance with specifications, that can be obtained from Lieut.-Col. J. H. Western, R. E., Queen Anne's Chambers, Broadway, Westminster, S. W., London, the Inspecting Engr., on payment of two shillings a copy.

BRIDGE.—Spain.—The Ministerio de Fomento has approved the plan to build a bridge at Ribadesella to cost $3,262,388 pesetas ($650,000). Embanking and dredging works are to be undertaken, the stream is to be widened, and a breakwater (espigon) is to be constructed.

*STEEL BRIDGE.—China.—Bids are asked until noon, Oct. 19, by Lau Chin Ting, Chn. Canton River Bridge Co., Hongkong, for the construction and erection, complete in every respect, of a steel cantilever and girder bridge in the Front Reach, Canton. It will be 1,102 ft. long between abutments.

BRIDGES.—Egypt.—Bids are asked by the Ministry of Public Works, at Cairo, until noon, Dec. 26, for construction of two road bridges over the Nile at Cairo. A preliminary deposit of $12,500 will be required to qualify, any bid.

Bids are asked until Sept. 18 by the Municipality Administrator, Alexandria, Egypt, for the construction of two swing bridges over the Mahmoudieh Canal.

DREDGING, ETC.—Portuguese East Africa.—The Portuguese Government has voted a sum of 10,000,000 francs ($2,000,000) for important works at Lorenco Marques, including the deepening of a canal towards the sea at the mouth of Delagoa Bay (the canal is nine kilometers long); and the extension (to a distance of one kilometer) of the existing quay. The latter is to be done in concrete, necessitating the use of a large quantity of cement.

BUILDING.—Spain.—Bids are asked until Aug. 26, for the construction of a building in Madrid for the Central Directorate of Posts and Telegraphs, at the estimated cost of 6,679,000 pesetas ($1,300,000). This building is to be fitted with iron banisters, elevators, etc. Bids will be received at the Direccion general de Correos y Telegraphos, Madrid. A deposit of 333,500 pesetas ($66,600) is required to qualify any bid. Local representation is necessary.

LEAD-COVERED TELEPHONE CABLE.—Australia.—Bids are asked until noon, Sept. 25, at the office of the Deputy Postmaster-General, Adelaide, for lead-covered telephone cable, as follows: Paper-insulated, lead-covered, 12½-lb. conductors: 7½ miles of cable, 208 pair; 3½ miles of cable, 156 pair; 4 miles of cable, 104 pair; 2½ miles of cable, 78 pair; 7 miles of cable, 52 pair; 2½ miles of cable, 26 pair. Also 700 yds. of cable, 104 pair, Eight lead-covered, silk and cotton-insulated. Bidders must state the country in which the articles tendered for have been made or produced, and in the case of manufactured articles where the material has been made or produced. Bids must include customs duty, if any.

RAILWAY EQUIPMENT.—Russia.—An appropriation of approximately $46,845,000 has beeen passed by the Russian Government for rolling stock for the years 1907-1911 for the Government railways. Inquiries for contracts should be addressed to the Minister of Ways and Communications, St. Petersburg, Russia.

The Belgian Government invites short-term bids for 300 locomotives, 200 tenders, Westinghouse brakes, wheels, etc. The appropriation for the same is about $6,000,000. Address Minister of Railways, Posts and Telegraphs, Brussels, Belgium.

Short-term bids are invited by the Chinese Government for the construction of a line, in sections, along the Russian frontier of Turkestan, parallel with the Middle China to Taschkent trade route. Address Board of Communications, Peking, China.

CONTRACT PRICES.

[Where (*) precedes items under Contract Prices the work was advertised in Engineering News.]

*MARGINAL CONDUIT.—Boston, Mass.—Bids in detail were received as follows on Aug. 5 by the Charles River Basin Commission, 367 Boylston St., Boston, for constructing the Cambridge marginal conduit. Work includes concrete masonry, piling and excavating. Henry S. Pritchett is Chn.; Hiram A. Miller is Ch. Engr.: (A) PATRICK McGOVERN, 6 Beacon St., Boston (awarded contract); (B) Jones & Meehan, 10 Tremont St., Boston; (C) Bruno, Salomone & Petitti, 23 Court St., Boston; (D) James Driscoll & Son, Brookline, Mass.; (E) Falvey & Kelley, 15 Intervale Park, Dorchester, Mass.:

	(A)	(B)	(C)	(D)	(E)
1,900 lin. ft. earth excav. and refill for conduit	$11.00	$12.00	$16.50	$16.00	$28.00
180 cu. yds. earth excav. in trench below masonry and underdrain	3.00	2.00	2.00	3.00	4.00
180 cu. yds. gravel refilling in trench below masonry and underdrain	2.00	2.00	1.50	2.00	2.00
39,500 lin. ft. piles in place	.20	.30	.20	.25	.20
1,800 lin. ft. underdrains	.65	.60	.50	1.00	.50
2,000 cu. yds. concrete masonry (1:2½:4½) in conduits and sewer	9.00	9.30	9.00	9.50	10.00
100 cu. yds. concrete masonry for backing	4.50	4.65	4.50	4.75	5.00
20 cu. yds. brick masonry	18.00	20.00	20.00	16.00	20.00
120 M. ft. B. M. sheeting left in place	35.00	20.00	30.00	30.00	20.00
40 tons iron and other metal work	20.00	22.00	25.00	25.00	15.00
16 M. ft. B. M. spruce lumber in place in timber platforms	40.00	40.00	50.00	35.00	40.00
Totals	$55,320	$59,835	$65,030	$67,930	$87,620

*LOCK, ETC.—Brownsville, Pa.—Bids were received as follows on Aug. 12 by Maj. H. C. Newcomer, Corps Engrs., U. S. A., Pittsburg, for building a lock with two chambers, two guide walls and two guard walls, at Brownsville, on the Monongahela River: (A) The Dravo Contracting Co., Pittsburg; (B) the T. A. Gillespie Co., Pittsburg; (C) H. E. Talbot & Co., Dayton, Ohio:

	(A)	(B)	(C)
55,000 cu. yds. earth excavation	$1.10	$0.80	$0.50
2,000 cu. yds. rock excavation	3.00	3.00	2.00
26,000 cu. yds. backfill	.50	.60	.30
52,000 cu. yds. concrete	7.00	6.65	6.50
20,000 lin. ft. piles	.60	.60	.50
70,000 ft. B. M. sheet piles and wales	100.00	80.00	90.00
6,000 lbs. pile shoes	.10	.07	.05
1,000 tons stone ballast	2.50	2.00	2.00
Total	$465,000	$431,420	$393,800

work, the department states, will last from one to two years or longer. Applicants must indicate in their applications that they have had at least five years' experience in surveying work. At least two years of this experience must have been either in charge of a party or as transitman. Other things being equal, those having had experience in hydrographic surveying will be given higher marks. A degree in civil engineering will be considered as equal to three years of this experience. Applicants who have not had sufficient training and experience to entitle them to a rating of 70 per cent. or more on this subject will not be admitted to the examination. Age limit, 20 years or over. Application Form 1312. No application will be accepted unless properly executed and filed with the Commission at Washington prior to the hour of closing business on Aug. 24.

MINERAL CLERK.—California.—The U. S. Civil Service Commission announces an examination on Sept. 18 to secure eligibles to fill a vacancy in the position of Mineral Clerk, at $5 a day, in the office of the Surveyor-General of California, and similar vacancies as they may occur. Age limit, 20 years or over. Application Form 1312.

MECHANICAL DRAFTSMAN.—Washington, D. C.—The U. S. Civil Service Commission announces an examination on Sept. 18-19-20 to secure eligibles to fill two vacancies in the position of skilled draftsman (mechanical), at $1,000 to $1,200 a year, in the offices of the Chief of Ordnance, War Dept., and similar vacancies in the position of mechanical draftsman at the salaries indicated, according to their rating as a result of the examination, as they may occur, for duty at various establishments. As the Commission has experienced considerable difficulty in securing eligibles for this position, qualified persons are urged to enter this examination. Age limit, 20 years or over. Application Form 1312.

CROP TECHNOLOGIST—Washington, D. C.—The U. S. Civil Service Commission announces an examination on Sept. 9, to secure eligibles from which to fill vacancies in the position of Assistant Crop Technologist, at salaries ranging from $1,500 to $2,000 a year, and of Crop Technologist, at salaries ranging from $2,000 to $3,000 a year, depending upon the training and experience shown. Applicants will not be assembled for any of the tests. As a result of this examination it is desired to secure persons who are thoroughly familiar with the processes involved in growing, curing, and handling tobacco or cereal crops and processes of manufacturing and milling. Separate registers will be established of eligibles qualified in tobacco and in cereal crops. Age limit, 20 years. Application Form 304 and special form.

COMPUTER.—Washington, D. C.—The U. S. Civil Service Commission announces an examination on Sept. 11-12 to secure eligibles to fill three vacancies in the position of Miscellaneous Computer, Naval Observatory, Washington, D. C., and similar vacancies as they may occur in that observatory. The Department states that miscellaneous computers are paid by the hour and earn from $800 to $1,000 a year. Promotions are made from this grade without further examination to the grade of computer, at $1,200 a year, as vacancies occur. As an insufficient number of eligibles to meet the needs of the service were secured from previous examinations held for this position, qualified persons are urged to enter this examination. Age limit, 20 years or over on the date of the examination, but preference in appointment will be given to eligibles under 35 years of age. Application Form 1312.

FOREMAN MECHANIC.—Fort Leavenworth, Kan.—The U. S. Civil Service Commission announces an examination on Sept. 18 to secure eligibles to fill a vacancy in the position of Foreman Mechanic, at $1,200 a year, Quartermaster's Department at Large, U. S. Military Prison, Fort Leavenworth, Kan., and vacancies as they may occur in any branch of the service requiring similar qualifications. Applicants must indicate in their applications that they are practical blacksmiths familiar with iron and steel work and the repair of wagons, that they have a knowledge of horseshoeing, and that they are able to instruct the prisoners in blacksmithing. No educational test will be given, and it will not be necessary for applicants to appear at any place for examination. Age limit, 20 years or over. Application Form 1093.

HULL INSPECTOR.—San Francisco, Cal.—An examination will be held by the U. S. Civil Service Commission on Sept. 11-12 to secure eligibles to fill a vacancy in the position of Assistant Inspector of hulls of steam vessels, Steamboat-Inspection Service, Seattle, Wash., at $1,400 a year, to be detailed to San Francisco, Cal., and vacancies as they may occur in the positions of local and assistant inspector of hulls in the Steamboat-Inspection Service throughout the United States. Age limit, 25 to 55 years. As the Commission has experienced considerable difficulty in securing eligibles for the positions of local and assistant inspector hulls, qualified persons are urged to enter this examination. Application Forms 1087 and 1405.

MARINE ENGINEER.—Boston, Mass.—The U. S. Civil Service Commission announces an examination on Sept. 4 to secure eligibles to fill a vacancy in the position of Marine Engineer, $960 a year, in the Quartermaster's Department, Boston, Mass., launch "Florence," and vacancies as they may occur in any branch of the service requiring similar qualifications. Each applicant for this position must submit with his application either his operator's license for gasoline launch or a certificate from the proper steamboat inspectors that such license has been issued to him. No educational test will be given, and it will not be necessary for applicants to appear at any place for examination. Age limit, 20 years. Application Form 1093.

NAUTICAL EXPERT.—Washington, D. C.—An examination will be held by the U. S. Civil Service Commission on Sept. 18 to secure eligibles to fill a vacancy in the position of Nautical Expert, at $1,000 a year, in the Hydrographic Office of the Navy Department, and similar vacancies as they may occur. As no eligibles were obtained as the result of the examination held on July 3, 1907, for this position, qualified persons are urged to enter this examination. At the request of the Department, applications will not be accepted from persons who have not attended for at least two years a nautical school of no

READERS' WANTS

If you are in the market for material, equipment or supplies, and fail to find it in our advertising pages, send us full particulars, and we will gladly put you in touch with the right parties.

Also ask for our BUYERS' GUIDE

BOILERS AND BOILER COVERINGS.—New York, N. Y.—Benjamin F. Welton, 127 Franklin St., New York City, desires catalogs from manufacturers of steam boilers and boiler coverings.

DEEP WELL PUMP.—Bisbee, Ariz.—We are advised by the Bisbee-Naco Water Co., Bisbee, Ariz., that the company is in the market for a high duty deep well pump of 500 to 700 gallons per minute capacity.

CRUSHER, MIXER.—Wilkes-Barre, Pa.—We are in receipt of a letter from the Wilkes-Barre Construction Co., Wilkes-Barre, Pa., stating that the company is in the market for a portable stone-crushing plant and a concrete mixer for street paving work.

MINE EQUIPMENT.—Chile, S. A.—We are advised by Robert Hawxhurst, Jr., Gen. Mgr. Poderosa Mine, Antofagasta, Chile, S. A., that he will be in the market shortly for a considerable amount of mining machinery and equipment and he desires catalogs with approximate price lists.

CONCRETE BLOCK MACHINERY.—Logansport, Ind.—The H. F. Hallis Construction Co., Logansport, Ind., writes us that catalogs and information are desired from manufacturers of machinery for concrete blocks, posts, pallets, shingles, etc., as well as all kinds of concrete machinery.

TRADE CATALOGS.—Pittsburg, Pa.—We are in receipt of the following advice from the Carnegie Library of Pittsburg: "The Technology Department of the Carnegie Library of Pittsburg is making an extensive collection of trade catalogs, and will be glad to receive catalogs of any of the advertisers in the Engineering News. These catalogs will be given a prominent place on the shelves, carefully cataloged under both firm name and subject, and made accessible to the public. Catalogs should be addressed care of H. W. Craver, Technology Department, Carnegie Library of Pittsburg."

WATER-WORKS SPECIALTIES. — Paris, France Water-Works specialties are the subject of an inquiry by Mr. P. Vaudrey, of Le Controle Industriel, 79 bis, Boulevard Magenta, Paris, France. He wishes to know particularly what American manufacturers make the following devices: Self-adjusting asbestos sleeves for use in running lead joints in cast-iron pipe; the Aquaphone or Hydrophone for detecting water waste; the "Wastenot," a faucet designed for restricting water waste; sand-screen fittings for protecting valves, meters, etc.; check-valves; water-motors and similar apparatus.

CIVIL SERVICE EXAMINATIONS.

COMPUTER—Washington, D. C.—The U. S. Civil Service Commission will hold an examination on Sept. 11-12 to secure eligibles to fill two vacancies in the position of piecework Computer, Nautical Almanac Office, Navy Dept., and similar vacancies as they may occur in that office. The department states that piecework Computers are paid according to the kind and quantity of work performed and that beginners earn from $700 to $900 a year. Promotions are made from this grade without further examination to the grade of assistant, as vacancies occur. The salaries of assistants range from $1,000 to $1,600 a year. Age limit, 20 years. Application Form 1312.

HYDROGRAPHIC SURVEYOR—Cuba.—On Sept. 4-5 the U. S. Civil Service Commission will hold an examination to secure eligibles to fill several existing vacancies in the position of Hydrographic Surveyor, at salaries ranging from $1,200 to $2,200 a year, in the Navy Department, and similar vacancies as they may occur. The specific positions to be filled are in connection with the work of surveying Almirante Bay and other surveying work on the south coast of Cuba, which

less a grade than the schools maintained upon the schoolships of the States of Massachusetts, New York and Pennsylvania, or who have not served for at least three years on board vessels navigating either the Great Lakes or the ocean. Age limit, 20 years or over. Application Form 1312.

ASSISTANT ENGINEER.—New York, N. Y. —The first ten on the eligible list for the position of Assistant Engineer, Designer, established by the Municipal Civil Service Commission on Aug. 7, 1907, are as follows (79 candidates passed the examination):

Kimball, Joseph H., 20 Fern St., Auburndale, Newton, Mass.	91.10
Suter, Russell, 35 East 31st St.	86.90
Robbins, Franklin H., 310 Western Ave., Aspinwall, Pa.	86.80
Vollmar, George A., Katonah, New York, care of Aqueduct Comn.	85.60
Cleverdon, Walter S. L., 666 St. John's Place, Brooklyn	85.45
Peterson, John, 129 West 112th St.	85.25
Barrett, Robert E., Milwood St., Farmingham, Mass.	84.90
Smith, Howard E., P. O. Box 201, Albany, N. Y.	83.90
Barlow, James E., 36 East 28th St.	83.90
Ferguson, John N., 53 Nightingale St. New Dorchester, Mass.	83.65

MANUFACTURING CEMENT CHEMIST.—Roosevelt, Ariz.—An examination will be held by the U. S. Civil Service Commission on Sept. 18 to secure eligibles to fill a vacancy in the position of Chemist qualified as cement tester, at $125 per month, for duty at the cement mill at Roosevelt, Ariz., in connection with the Roosevelt Dam, Reclamation Service, and similar vacancies as they may occur. It is expected that the mill at Roosevelt, Ariz., will be run for two or three years. Applicants for this position must be chemists with practical experience with raw materials and the manufacture of cement therefrom. Persons who have had such experience in the West will be given preference. Applicants must have had sufficient experience as chemists in cement mills to enable them to produce the required finished product from the raw materials at hand. Only those applicants whose applications show that they have had sufficient training and experience to entitle them to a rating of 70 or more in that subject will be admitted to the examination. Age limit, 20 years or over. Application Form 1312.

INDUSTRIAL NOTES.

The D. F. HOLMAN TRACKLAYER CO., Ellsworth, Bldg., Chicago, advises that the company has recently installed one of its Standard tracklayers on the Canadian Pacific Railway near Parry Sound, Ont., and has shipped another to Katalla, Alaska, for use on the Copper River & Northwestern Railway.

THE PITTSBURG AUTOMATIC VISE & TOOL CO. Pittsburg, has recently made a large shipment of vises to the Portsmouth (N. H.) Navy Yard, according to reports. A large part of the shipment consisted of very large vises, weighing 695 lbs. each, especially adapted to the severe service in the Navy Yard.

The PARKER BOILER CO., Penn Bldg., Philadelphia, Pa., announces the following contracts recently executed: Austin Manufacturing Co., Harvey, Ill., one 365-HP. boiler; Southern Indiana Hospital for Insane, Evansville, Ind., three 300-HP. boilers; Perth Amboy Chemical Co., Perth Amboy, N. J., one 267-HP. boiler.

THE TECHNICAL INVESTIGATION AND CONSTRUCTION CO., Syracuse, N. Y., announces the following recent contracts for special plants: Electro-plating plant, McGraw Corset Co., McGraw, N. Y. Water-softening plant, Smith & Ellis Co., Canastota, N. Y. Distilling plant, Beckwith Leather Co., Chadwicks, N. Y.

THE BLUE SEAL PORTLAND CEMENT CO., Kansas City, Mo., it is reported, is to erect immediately a mill with a capacity of 2,500 bbl. per day at Courtney, Jackson Co., Mo., 11 miles east of Kansas City, on the Sante Fe R. R. Oil or coal will be used for fuel. The contract for the building of the plant has been let to the Fuller Engineering Co., Allentown, Pa.

The DETROIT CARBUILDING & EQUIPMENT CO. is a new incorporation just formed in Detroit, Mich., for the purpose of manufacturing all kinds of freight and logging cars. The incorporators are all well known Detroit capitalists with large experience in railway equipment. The plant consists of about seven acres of land located at the intersection of the Wabash, M. C. & L. S. R. R., Dix & Waterman Aves. The plant is all ready for the immediate manufacture of all kinds of freight and logging cars and will give employment to about 500 men.

The J. H. WAGENHORST & CO., of Youngstown, Ohio., manufacturers of electric blue print machines, report the following partial list of sales:

University of Wisconsin, Madison, Wis.
General Fireproofing Co., Youngstown, O.
Pittsburg Bridge & Iron Co., Pittsburg, Pa.
Stone City Blue Print Co., Bedford, Ind.
Western New York Construction Co., Buffalo, N. Y.
Central Union Telephone Co., Indianapolis, Ind.
C. I. & S. Railroad Co., Gibson, Ind.
C. & E. I. Railroad Co., Danville, Jct., Ill.
Lands and Works Department, Victoria, B. C.

DETROIT GRAPHITE COMPANY is the new corporate title of the Detroit Graphite Manufacturing Company, of Detroit, Mich. F. W. Davis, Jr., has been elected vice-president, and T. R. Wyles, second vice-president of the company. A. A. Boutell is president. With the very extensive additions and improvements that have been made to its buildings and machinery departments the company is prepared to give even prompter attention than heretofore to all orders. The great increase and demand for its light color paints has necessitated the reservation of one building especially for this department. The company's factories are located in Detroit, and its mines are at L'Anse, Mich. It maintains offices in the following cities: New York, Boston, Chicago, Buffalo, Cleveland, St. Louis, Atlanta and Kansas City. In a little over 15 years now this concern has been obliged to increase its capital stock four times. The frequent increase in capitalization has been necessitated by the rapid increase in its business which now reaches to all parts of this country with frequent shipments abroad.

The SOUTHERN HYDRAULIC ENGINEERING CO., with offices in Atlanta, Ga., and Birmingham, Ala., has been appointed agents for the products of the C. H. Wheeler Manufacturing Co., of Philadelphia. These consist of the Wheeler-Mullan High Vacuum Apparatus, the Wheeler-Pratt Water Cooling Towers, Wheeler-Barr Pumps, the C. H. Wheeler Feed-Water Heaters and the Mullan Suction Valveless Air Pumps. This latter pump is attracting considerable attention in the engineering field. It was first placed on the market about two years ago, already there are over eighty installed, with fifty more in course of construction.

The WEBER-DULLER CONSTRUCTION CO., Houston, Texas, has been organized for the purpose of carrying on all kinds of construction work that may be desired. To erect warehouses, factories, chimneys, stacks, foundations, bridges, sewers, water-works, tanks, towers, canals, flumes, pavements, streets, roads, walks, electric and other lighting and power plants, or any other buildings, and specialties in concrete and steel-concrete structures.

The company is organized with a capitalization of $250,000 divided into 2,500 shares of $100 each, being fully paid and non-assessable; the company will carry franchises from the Weber Steel-Concrete Chimney Co. covering the States of Texas and Louisiana, for its special lines of construction. The directors and officers for 1907 are as follows: Carl Weber, President, President of the Weber Steel-Concrete Chimney Co., Chicago. Jacob C. Baldwin, Vice-President, attorney, Houston. David M. Duller, Secretary-Treasurer and General Manager, civil engineer, Houston. Al. V. Kellogg, Chief Engineer of Atlantic System of Southern Pacific Ry., Houston. J. U. Jones, District Manager, of Allis Chalmers Co., Dallas. G. P. Nash, Weber Steel-Concrete Chimney Co., Chicago.

THE WESTINGHOUSE ELECTRIC & MFG. CO., of Pittsburg, Pa., states in its annual report that much attention has been given to the improving of manufacturing methods and increasing the output. A new building with 250,000 sq. ft. of floor space is now being completed and will add 10% to the floor space of the East Pittsburg plant. There has been extensive development work in connection with the company's products, the most notable being in regard to the single-phase traction system which is now in use on several roads. A heavy single-phase electric passenger locomotive for the Pennsylvania R. R. terminals at New York has also been built and tested. A line of apparatus for the utilization of high-voltage direct currents has been developed, also apparatus for steel-mill operation, and a new form of integrating wattmeter has been put on the market. A number of generators of 7,500 and 10,000-KW. capacity have been built for direct connection to steam turbines. In lamps, the company has commenced the introduction of a metallized-filament incandescent lamp and a metallic-flame arc lamp, while progress has been made in developing the tungsten metal-filament incandescent lamp on commercial lines. The company's plants have 18,400 employees, besides nearly 600 in the selling organization. The sales for the year ending with March 31, 1907, aggregated $34,115,548, as against $24,939,-600 for the previous year. With the addition of the sales of the subsidiary companies the sales amounted to about $38,250,000.

TRADE PUBLICATIONS.

PYROMETERS.—Wilson-Maeulen Co., 110 Liberty St., New York City. Bulletins 25 and 26. Paper; 8½ × 11½ ins.; pp. 8; illustrated.

These circulars describe a line of pyrometers and fused quartz fittings. The pyrometers include several types, such as "Advance" (Electric), Fery Radiation and Le Chatelier. The fused quartz is given the trade name of "Electroquartz."

CONTRACTORS' LOCOMOTIVES.—Davenport Locomotive Works, Davenport, Ia. Paper; 3½ × 6¼ ins.; pp. 16; illustrated.

This pamphlet shows a type of four-wheel (0-4-0), saddle-tank contractors' locomotive or "dinkey," with its use on a number of works. It has also a list of some 125 contractors and others using from one to 20 of these engines. The special features and advantages of the Davenport engines are set forth in brief.

RACK-RAIL LOCOMOTIVES.—A. Borsig, Tegel, Germany. Paper; 9 × 6 ins.; pp. 28; illustrated.

A number of designs are shown for engines working by the rack-rail system alone and by both adhesion and rack-rail. The railways operated are in Europe and South America, including the Chilean section of the Transandine Ry. These last are tank engines of the 2-6-4 type, with two rack pinions. In some of the smaller engines, the cylinders drive a countershaft, which is geared to the pinion shaft, and has at its ends crank disks for the coupling rods to the adhesion wheels. Descriptions and dimensions are given, and the pamphlet is printed in both English and Spanish.

LOCOMOTIVES.—American Locomotive Co., 111 Broadway, New York, N. Y. Paper; 9 × 6 ins.; pp. 62; illustrated.

Switching locomotives of the six-wheel (0-6-0) type are dealt with in this pamphlet, which gives views and dimensions of 26 engines, ranging from 51 to 83 tons in total weight. The wheels are mainly 50 and 51 ins. diameter, 57 ins. being the maximum. The cylinders range from 18 × 24 ins. to 21 × 30 ins., these last being on 83-ton engines of the New York Central Lines.

INCANDESCENT LAMPS. — Westinghouse Lamp Co., 510 West 23d St., New York City. Paper; 5 × 8 ins.; pp. 36; illustrated.

The Westinghouse line of carbon filament lamps is herein described. This line includes several types other than the standard. Among these are round and tubular bulbs, reflecting, railway, mill, street-series, miniature, frosted and colored. The efficiencies vary from 3.1 to 4 watts per c. p. for a life of 450-1,480 hrs. to the point where the candle power has decreased 20%.

For other Proposal Advertisements see pages 55, 56, 57, 58, 59, 60, 61, 62 of Advertisements and Construction News page 66.

PAVING.

Elmira, N. Y.

The Board of Public Works of Elmira, N. Y., will receive sealed bids for paving west side of Railroad Avenue, between the northerly side of West Water and the southerly side of West Church Streets, and the east side of Railroad Avenue, between the northerly side of East Water and the southerly side of East Market Streets, with vitrified block and asphalt on a concrete foundation.

There will be required about 2,200 square yards of pavement and 2,000 lin. ft. of curbing.

Bids must be presented before 11 A. M., Wednesday, September 4th, 1907, to the undersigned, accompanied by a certified check for $700, payable to City of Elmira.

Plans and specifications may be seen at the office of the City Engineer in the City Hall, Elmira, N. Y., from whom also may be obtained the "bidding sheets" which must be used in making the proposals. Bids should be addressed, "Board of Public Works, bid for paving Railroad Ave." The Board reserves the right to reject any and all bids.

S. A. WARNER,
City Clerk.

Dated August 20, 1907. 8-2t

CURB AND GUTTER CONSTRUCTION.

Jamestown, N. Y., Aug. 20th, 1907.

Sealed proposals will be received by the Board of Estimate and Review at their office in the City Hall until 12 o'clock noon, Sept. 2d, 1907, for the furnishing of labor and materials for the construction of approximately 23,000 feet of cement curb and gutter, 36 concrete catch basins, and ten (10) manholes.

Plans and specifications may be examined at the office of the City Engineer where blank forms of proposals may be obtained.

Payment for said work to be made upon a cash basis 85% on monthly estimates, and 15% when the work is accepted.

Each bid must be accompanied by a certified check in the sum of $500.00, made payable to the Board of Estimate and Review, as a guarante of good faith that the bidder will promptly enter into a contract if awarded the work. The Board reserves the right to reject any or all bids.

Signed, F. A. DORMAN,
C. G. JONES,
C. P. CARLSON,
Board of Estimate and Review.

C. G. JONES, City Engineer. 8-2t

IRON BRIDGE.

Laurel Springs, N. J.

Sealed proposals are invited for building a new iron truss bridge 64 feet long, over Laurel Lake, Laurel Springs, N. J. Plans and specifications can be seen at the office of the clerk, Fred. W. George, Court House, Camden, N. J., or will be mailed to any address on application.

Bids will be received, immediately opened and publicly read at the Freeholders Room in the Court House, Camden, N. J., on Sept. 9th, 1907, at 11 A. M.

All bids to be marked "Proposals for Bridge," and addressed to George W. Whyte, Chairman.

Dated Camden, N. J., Aug. 20, 1907.

GEO. W. WHYTE, Chairman.

J. J. ALBERTSON, Co. Engr. 8-2t

GAS PLANT

Pa[illegible]boro, N. J.

Sealed proposals, marked "Proposals for Installation of Gas Plant," addressed to Charles M. Gwilliam, Borough Clerk, Paulsboro, New Jersey, will be received until 7 o'clock P. M., on Thursday, August 29, 1907.

Plans and specifications may be examined at the office of William H. Boardman, Engineer, 426 Walnut Street, Philadelphia.

A certified check for One Thousand Dollars ($1,000), payable to the order of William H. Flowers, Jr., Borough Treasurer, Paulsboro, New Jersey, must accompany each proposal.

The right is reserved to reject any or all bids.

CHARLES M. GWILLIAM,
Borough Clerk.
WILLIAM H. BOARDMAN,
Engineer. 8-1t

HIGHWAY IMPROVEMENT.

Carrollton, Ohio.

Sealed proposals will be received at the Office of the Trustees of Springfield Township, Jefferson County, Ohio, until 3 p. m., Thursday, September 5, 1907, for the grading and macadamizing of five (5) miles of road in Springfield Township, between Bergholz and East Springfield. Specifications can be obtained from W. A. Taylor, Clerk, Bergholz, Ohio; R. H. Lee, Engineer, Carrollton, Ohio, or John A. Huston, Attorney, Steubenville, Ohio.

The right is reserved to reject any or all bids.

By order of the Township Trustees.

W. A. TAYLOR,
8-1t Township Clerk.

GRADING.

Norristown, Pa.

Bids will be received at Norristown, Pa., until 8 P. M., August 29, for grading ten thousand six hundred cu. yds. in one piece and twenty-four thousand six hundred cu. yds in another. Plans and specifications on file in office of Engineer.

DR. W. G. MILLER,
Chairman Highways Com.
S. CAMERON CORSON,
Borough Engineer. 8-1t

REINFORCED CONCRETE BRIDGE.

Bids will be received by the Committee of the Board of Chosen Freeholders of the County of Union, at the Court House, Elizabeth, N. J., at 3 P. M. on Wednesday, Sept. 4, 1907, for the construction of a reinforced concrete bridge at New Church Street, Rahway, N. J., over the Robinson Branch of the Rahway River.

The bridge is 46 feet wide by 60 feet span.

Plans and specifications may be seen at the office of the County Engineer, 215 Broad Street, Elizabeth, N. J.

J. L. BAUER,
8-1t County Engineer.

OFFICE OF THE COMMISSIONER, D. C., Washington, D. C., August 20, 1907.—Sealed proposals will be received at this office until 12 o'clock noon, Tuesday, September 3, 1907, for grading Albermarle Street; amount available about $8,500. Blank forms of proposal, specifications and all necessary information will be furnished on application at Room 43, District Building. HENRY L. WEST, JAY J. MORROW, Commissioners, D. C. 8-2t

Situations Open

WANTED—Draftsman for map and general drafting; send sample of work; state age, experience and salary desired. CHIEF ENGINEER, The Consolidated Coal Co., Frostburg, Md. 8-4t

Miscellaneous Wants

CIVIL ENGINEER, having had considerable experience in railroad work, especially in tropics, would invest some capital in an engineering or construction company. Give full particulars. Aldress "L. A. 8," Engineering News, New York. 8-2t

FOR SALE

Contracting Business

in special line covered by patents for sale account death of proprietor; large profits; first-class opportunity for party with capital. Address, "M. A. 8," Engineering News, New York. 8-1

Books on LETTERING
By C. W. REINHARDT. Price, $1.00
By Prof. H. S. JACOBY. Price, $3.00

No. 8.

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Proposals for
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Supplement to

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CONSTRUCTION NEW
Plans and Specific
List of Contracts
Railways .....
Electric Railways
Light and Power
Bridges .....
Buildings .....
Water Supply and
Sewerage .....
Streets and Roads
Manufacturing Pl
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9- 4 State bld
9- 4 Post-office
9- 5 Laundry
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